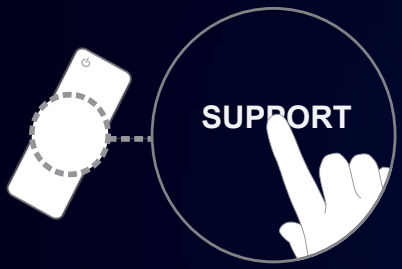
SAMSUNG

E-MANUAL



Thank you for purchasing this Samsung product.

To receive more complete service, please register your product at

www.samsung.com/register

Model_____Serial No._____

Contents

Connection and Channel Menu

- Connecting the TV 1
- Using the INFO button (Now & Next guide) 19
- Managing Channels and Channel Functions 21
- Memorizing Channels 64
- Other Features 73

Basic Feature

- Changing the Preset Picture Mode 77
- Adjusting Picture Settings 80
- Changing the Picture Size 86
- Changing the Picture Options 96
- Using the TV with Your PC 114
- Changing the Preset Sound Mode 118
- Adjusting Sound Settings 120

Preference Features

- Connecting to the Network 136
- Setting up a Wired Network 147
- Setting up the Wireless Network 160
- Managing the Network Devices 189
- Setting the Time 200
- Blocking Programmes 212
- Economical Solutions 215
- Picture In Picture (PIP) 219
- Using the TV with a Keyboard and a Mouse 224
- Other Features 232
- Support Menu 243

Advanced Features

- Using the 3D function 268
- Smart Hub 287

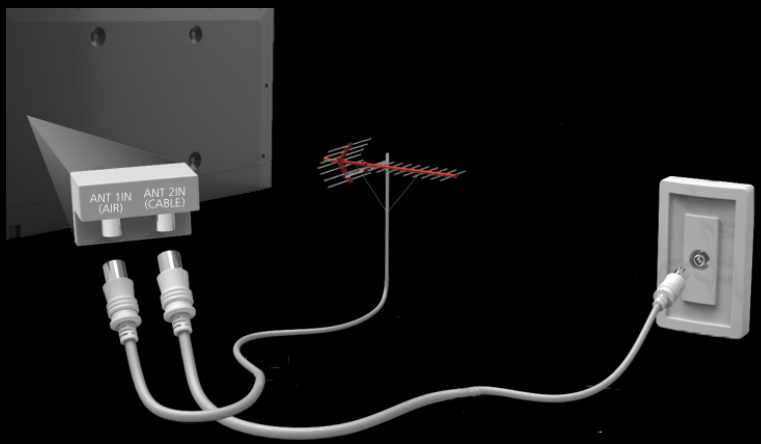
- Customizing the Home Screen 310
- Using the Samsung Apps 340
- ‹Search 350
- ‹Your Video 356
- ‹Family Story 373
- ‹Fitness 428
- ‹Kids 440
- ‹Web Browser 454
- ‹Skype 479
- SMART Interaction 482
- ‹AllShare Play 524
- ‹My list (In AllShare Play) 542
- ‹Videos (In AllShare Play) 550
- ‹Photos (In AllShare Play) 567
- ‹Music (In AllShare Play) 583
- ‹Recorded TV (In AllShare Play) 597
- Calendar 611
- ‹Timeshift 620
- Using the DLNA Function 630
- ‹Using the MHL function 641
- ‹Anynet+ (HDMI-CEC) 647

Other Information

- ‹Troubleshooting 664
- ‹Using the Smart Touch Control 722
- ‹Supported Subtitle and AllShare Play file formats 750
- ‹Data Service 759
- ‹Anti-theft Kensington Lock 766
- ‹Licence 771

Connecting the TV

Connecting to an Air or Cable



The displayed image may differ depending on the model.

Connecting to an AV Device

Using a HDMI (up to 1080p)



The displayed image may differ depending on the model.

Using an HDMI cable (up to 1080p)

HDMI IN 1(DVI), HDMI IN 2(ARC), HDMI IN 3(MHL)

- For better picture and audio quality,

connect to a digital device using an HDMI cable.

- An HDMI cable supports digital video and audio signals, and does not require an audio cable.
  - To connect the TV to a digital device that does not support HDMI output, use an HDMI/DVI and audio cables.
- The picture may not display normally (if at all) or the audio may not work if an external device that uses an older

version of HDMI mode is connected to the TV. If such a problem occurs, ask the manufacturer of the external device about the HDMI version and, if out of date, request an upgrade.

- Be sure to use an HDMI cable with a thickness of 14 mm or less.
- Be sure to purchase a certified HDMI cable. Otherwise, the picture may not display or a connection error may occur.

- A basic high-speed HDMI cable or one with Ethernet is recommended. This product does not support the Ethernet function via HDMI.
- This product supports the 3D and ARC (Audio Return Channel) functions via an HDMI cable. Note that the ARC function is supported by the HDMI IN 2(ARC) port only.
  - If 3D Auto View is set to On, some functions such as SMART HUB may

be disabled. In this case, set 3D Auto View or 3D Mode to Off.

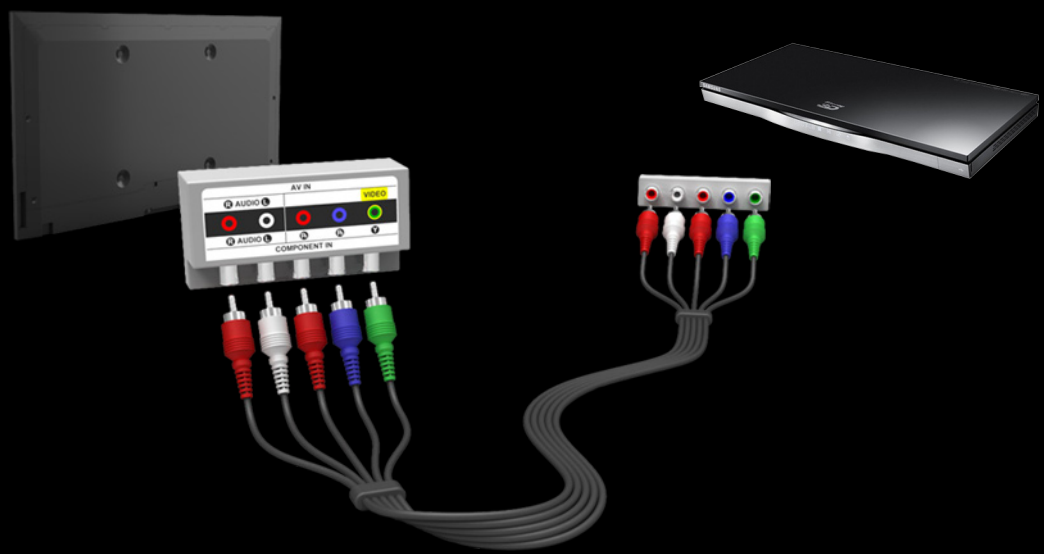
- The ARC function allows digital audio to output via the HDMI IN 2(ARC) port. It can be enabled only when the TV is connected with an audio receiver that supports the ARC function.

- This product supports the Mobile High-Definition Link (MHL) function via an HDMI-MHL cable. Note that the MHL function is supported by the HDMI IN 3

(MHL) port only.

- The MHL function allows to display mobile device's screen via the HDMI IN 3 (MHL) port. It can be enabled only when the TV is connected with a mobile device that supports the MHL function. For more detailed information, see "Using the MHL function" in e-Manual.

Using a Component (up to 1080p)



The displayed image may differ depending on the model.

Using a Component (up to 1080p) or an Audio/Video (480i only)

When connecting to AV IN, connect

the AV connector (yellow) to the TV jack (Green).

- To obtain the better picture quality, the Component connection or Scart connection are recommended over the A/V connection.

Connecting to an Audio device

Using an Optical (Digital) Connection



The displayed image may differ depending on the model.

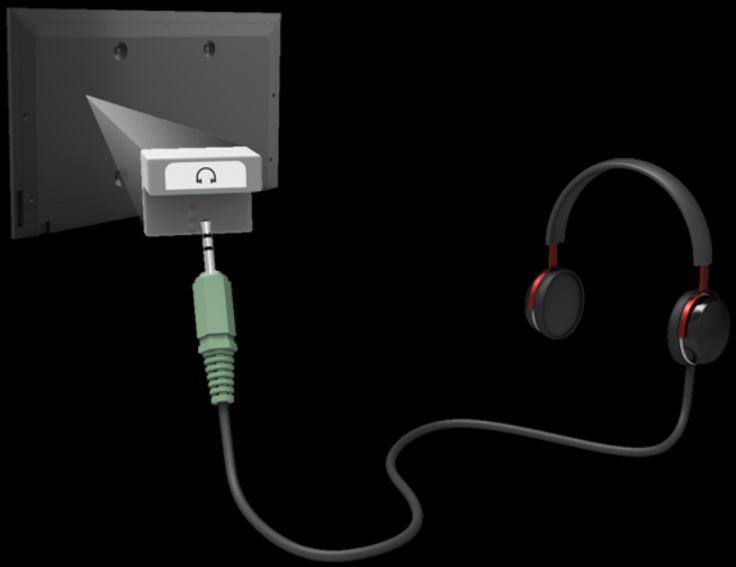
DIGITAL AUDIO OUT (OPTICAL)

- When a digital audio system is connected to the DIGITAL AUDIO OUT (OPTICAL) jack, decrease the volume of both the TV and the system.
- 5.1 CH (channel) audio is available when the TV is connected to an external device supporting 5.1 CH.
- When the receiver (home theatre) is set to on, you can hear sound output from the TV's optical jack. When the TV

is receiving a DTV signal, the TV will send 5.1 CH sound to the home theatre receiver. When the source is a digital component such as a DVD / Blu-ray player / cable box / STB (Set-Top-Box) satellite receiver and is connected to the TV via HDMI, only 2 CH audio will be heard from the home theatre receiver. If you want to hear 5.1 CH audio, connect the digital audio out jack from your DVD / Blu-ray player / cable box / STB

satellite receiver directly to an amplifier or home theatre.

Headphones



The displayed image may differ depending on the model.

You can connect your headphones to

the headphones output on your set. While the headphones are connected, the sound from the built-in speakers will be disabled.

- Sound function may be restricted when connecting headphones to the TV.
- Headphone volume and TV volume are adjusted separately.
- The headphones jack supports only the 3 conductor tip-ring-sleeve (TRS)

type.

Connecting to a PC

Using an HDMI cable or an HDMI to DVI cable



The displayed image may differ depending on the model.

Connecting through the HDMI cable

may not be supported depending on the PC.

Optimal resolution is 1920 X 1080 @ 60 Hz.

For HDMI/DVI cable connection, you must use the HDMI IN 1(DVI) jack.

- The interlace mode is not supported.
- The set might operate abnormally if a non-standard video format is selected.

- Separate and Composite modes are supported. SOG (Sync On Green) is not supported.
- PC (D-Sub) input is not supported.

Using the INFO button (Now & Next guide)

The display identifies the current channel and the status of certain audio-video settings.

The Now & Next guide shows daily TV programme information for each channel according to the broadcasting time.

- Scroll ◀, ▶ to view information for a desired programme while watching the current channel.

- Scroll ▲, ▼ to view information for other channels. If you want to move to the currently selected channel, select ↵ using your remote.

Press the button to select the menu you want to use. Each screen will be displayed.

Guide

→ Guide

The EPG (Electronic Programme Guide) information is provided by broadcasters.

Using programme schedules provided by broadcasters, you can specify

programmes you want to watch in advance so that the channel automatically changes to the selected programme channel at the specified time. Programme entries may appear blank or out of date depending on a channel status.

Using Channel View

- A (Sche. Mgr): Displays the Schedule Manager.

- B (-24 Hours): Viewing the list of programmes to be broadcasted before 24 hours.
- C (+24 Hours): Viewing the list of programmes to be broadcasted after 24 hours.
- D (Ch. Mode): Select the type of channels you want to display on the Channel View window.
- i Information: Displays details of the selected programme.

- ◇ Page: Move to next or previous page.
- Watch / Schedule: When selecting the current programme, you can watch the selected programme. / When selecting the future programme, you can reserve to watch the selected programme.

Channel

→ Channel

Using this function, you can delete

channels from the different Category channel lists on the Channel screen, set favourite channels, view and access recently viewed and most viewed channels, and edit the channel names of analogue channels.

- The available items may differ depending on the selected aerial source.

Category Options (on the left side of the

Channel screen)

- All

  Shows all channels.

- TV

  Shows TV channels.

- Radio

  Shows radio channels.

- Data/Other

  Shows data channels and other channels.

- Analogue

Shows analogue channels.

- Favourites 1 - Favourites 5

  Lets you arrange and display favourite channels in up to five groups. Each group is independent of the other groups and can contain the same channels as other groups, different channels, or a combination of both.

  The TV displays favourites only if you have added favourites using Edit Favourites in the Tools menu.

If the highlight located in the Favourites 1 - Favourites 5 category, you can change the name of category by selecting B using your remote.

- Recently Viewed

  Shows the most recently viewed channels.

- Most viewed

  Shows the most frequently viewed channels.

Using the coloured and function buttons with Channel

- A Air / Cable

  Select the desired aerial source.

  The option may differ depending on country.

- B Delete

  Deletes the selected channel(s) from a category list.

- i Information

Displays details of the selected channel.

- ◇ Page

  Scrolls the channel list to the next or previous page.

  ✎ These correspond to the CH buttons on the remote.

- ⇆ Select / Deselect

  Selects or deselects a channel.

- ⇗ Tools

  Displays the option menu.

- ↩ Return

Return to the previous menu.

Using the Tools menu with the Channel

- Edit Favourites

  Lets you assign channels you watch frequently to a favourites group and remove channels from a favourites group. You access Edit Favourites on the Tools menu.

  1. Select Edit Favourites. The Edit Favourites screen appears.

2. Select A using your remote. The selected channel will be added to the favourite group.

   - Also, you can select a channel in the Edit Favourites screen.

   - You can add a favourite channel to any one of the groups. To change favourites group, select D using your remote. Each time you select D, a favourites group will be changed.

3. When done, select OK on the right side. The channel is made a favourite and is assigned to the favourites group you selected.

4. Edit completed. appears on the screen. Select OK.

   ✎ On the Channel screen, the TV displays the “⭐” symbol next to the channel, indicating it is a favourite.

- Lock / Unlock

Lock a channel so that the channel cannot be selected and viewed.

This function is available only when the Channel Lock is set to On.

- Rename channels

  (Appears only if you have selected an analogue channel.)

  Lets you assign a name of up to five characters to an analogue channel. For example, Food, Golf, etc. This makes it easier to find and select the channel.

- Edit Channel Number

  Edit the channel number by select the numbers.

  ✎ This function may not be supported depending on the region.

- Sorting (digital channels only)

  Change the list ordered by name or number.

- Channel Info

  Displays information of channel signal. The item may differ depending on

channel.

- Delete

  Delete a channel to display the channels you want.

- Select All / Deselect All

  Select all channels in the list. / Deselect all channels you selected.

To delete a channel from a Category list on the Channel screen, follow these steps:

1. If you want to delete a channel, select a category of the channel.
2. Select a channel in the category list. A ✓ mark appears to the left of the channel.

   ✎ You can select more than one channel.

   ✎ If you re-select a channel you selected, the ✓ mark disappears.
3. Open the Tools menu using your remote.

4. Select Delete. The message Delete the selected channels? appears. Select OK.

- You can delete the selected channel immediately by selecting B using your remote.
- When you delete a channel in the Recently Viewed or Most viewed category, the channel will disappear from that category list. But, the channel is not deleted.

To set channels as favourites, follow these steps:

1. Select the All category.
2. Select a channel in the category. A ✓ mark appears to the left of the channel.

   ✎ You can select more than one channel.

   ✎ If you re-select a channel you selected, the ✓ mark disappears.

3. Open the Tools menu using your remote.
4. Select the Edit Favourites. The Edit Favourites screen appears.
5. Select A using your remote. The selected channel will be moved to the favourite group.

Also, you can select a channel in the Edit Favourites screen.

You can add a favourite channel to any one of the groups. To

change favourites group, select D using your remote. Each time you select D, a favourites group will be changed.

6. When done, select OK. The channel is made as a favourite and is assigned to the favourite group you selected.

   The TV displays the "⭐" symbol next to the channel, indicating it is a favourite.

Using the coloured and function buttons with Edit Favourites

- When the highlight located in the All, you can use these options:
  - A Add

    Add selected channels to the favourites group.
  - D Change Fav.

    Change the favourites group. Each time you select D using your remote, the favourites group

changes.

– 0~9 Go To

You can enter a channel number immediately using your remote.

– ↩ Return

Return to the previous menu.

- When you highlight a favourite channel in a favourites group on the Edit Favourites screen, you can use these options:

– A Delete

Delete the selected channel.

– B Change order

Change the favourite group list order.

– C Copy

Copy a selected channel to other favourites groups.

– D Change Fav.

Change the favourites group. Each time you select D using your remote, the favourites group

changes.

– ↵ Done

Finish the Change order function.

– 0~9 Go To

You can enter a channel number immediately using your remote.

– ↩ Return

Return to the previous menu.

To remove a channel from a favourites group, follow these steps:

1. Select the favourite's group category.
2. Select a channel in the selected favourites group. A ✓ mark appears to the left of the channel.

   ✎ You can select more than one channel.

   ✎ If you re-select a selected channel, the ✓ mark disappears.
3. Open the Tools menu using your remote.
4. Select the Delete. The message

Do you want to delete the selected item(s)? appears.

5. Select OK. The message Deleted the selected item(s). appears.

Display Icons Used in the Channel screens

A: An analogue channel.

✓: A channel selected.

★: A favourite channel.

🔒: A locked channel.

Schedule Manager

→ Schedule Manager

Using this function, you can set the TV to display a desired channel automatically on a day and at a time of your choice.

You must set the current time first using the Time → Clock function in the System menu to use this function.

To use Schedule Viewing, follow these steps:

1. On the Schedule Manager screen, select A using your remote.
2. A pop up screen will appear. Select Schedule Viewing.
3. Set Aerial, Channel, Repeat, and Start Time.

- Aerial

  Select the desired aerial source.

- Channel

Select Channel to view the channel numbers. Select the desired channel.

You can only select memorised channels.

- Repeat

  Select Once, Manual, Sat~Sun, Mon~Fri or Everyday. If you select Manual, you can set the day you want.

  The ✓ mark indicates a day you've selected.

Date: You can set a desired date.

✎ The Date is available only when you select Once in Repeat.

- Start Time

  You can set the start time you want.

4. When done, select OK, The selected channel is scheduled for viewing.

   ✎ On the Schedule Manager screen, you can view a list of Schedule Viewing.

   ✎ If you select Information

function using your remote after highlighting an item, the Information screen appears. On the Information screen, you can change or cancel the Schedule Viewing.

Cancel schedule: Cancel the Schedule Viewing.

Edit Schedule: Change the Schedule Viewing.

Return: Return to the previous

screen.

To delete an item in a list of scheduled, follow these steps:

1. On the Schedule Manager screen, highlight an item you want to delete.
2. Open the Tools menu using your remote.
3. Select the Cancel schedule. The Cancel selected list(s)? message appears.

4. Select Yes. The selected schedule is cancelled.

To use the Schedule Recording, follow these steps:

(Digital channels only)

Allows you to make a reservation to record a programme scheduled for broadcast.

Set the current time first to use this function.

1. Select Schedule Manager. The Schedule Manager screen will be displayed.
2. Select A using your remote. A pop up screen will appear.
3. Select the Schedule Recording.

   ✎ We recommend using a USB HDD with at least 5,400 rpm, but a USB HDD of RAID type is not supported.

   ✎ More than 3TB USB HDD is not

supported.

- A USB storage device cannot record until it completes the Device Performance Test.
- USB memory stick is not compatible.

4. Set the Aerial, Channel, Repeat, Date, Start / End Time.

- If you want to play a recorded programme, refer to Recorded TV in the e-Manual.

Channel List

Using this function, you can view the channel list, programme information, and favourite channels, select channels to watch, and use Schedule Viewing on digital channels.

1. Press the CH LIST button for Standard Remote Control or select CH List for Smart Touch Control. The Channel List screen is displayed immediately.

2. Change a channel or channel list mode.

Using the coloured and function buttons with the Channel List

If you select Info using your remote, the TV displays details of the selected programme.

- A Aerial

  Select the desired aerial source.

  The option may differ depending on

country.

- C Programme View / Channel View

  For digital channels, switches the display between Programme View and Channel View.

  When you select a digital channel in Channel List, select C once to display a list of programmes on that channel. Select again to re-display the Channel View.

- ◀▶ Ch. Mode / Channel

  Move to the type of channels you want to display on the Channel List screen. / On the Programme View screen, displays the programmes for the next or previous channel.

- ↵ Watch / Information

  Watches the channel you select. / Displays details of the selected channel.

- ▲▼ Page

  Scrolls the Channel List to the next or

previous page.

Using the Schedule Viewing in Channel List (Digital channels only)

(Digital channels only)

You can use Schedule Viewing in Channel List to schedule a digital channel programme for viewing. The TV will turn on and display the digital channel programme when the programme begins.

1. Select CH LIST function using your remote. The Channel List screen appears.
2. Select a desired digital channel.
3. Select C using your remote. The TV displays the programme list of the selected channel.
4. Select a desired programme in the programme view, and then select Information using your remote.
5. On the Information screen, select

Schedule Viewing. The selected programme is scheduled.

If you want to cancel the Schedule Viewing, follow Steps 1 through 4, and then select Cancel schedule.

Channel Status Display Icons

: An analogue channel.

: A reserved programme.

: A reserved recording programme.

: A locked channel.

Memorizing Channels

Aerial

Menu → Channel → Aerial

Before your television can begin memorizing the available channels, you must specify the type of signal source that is connected to the TV.

Auto Tuning

Menu → Channel → Auto Tuning

Scans for a channel automatically and stores in the TV.

Automatically allocated programme numbers may not correspond to actual or desired programme numbers. If a channel is locked using the Channel Lock function, the PIN input window appears.

When Aerial Source is set to Air or Cable

- Digital & Analogue / Digital / Analogue:

Select the channel source to memorise. When selecting Cable → Digital & Analogue or Digital: Provide a value to scan for cable channels.

- Search Mode: If you selected the Cable, the Search Mode screen appears. Scans for all channels with active broadcast stations and stores them in the TV.

  If you select Quick, you can set up the Network, Network ID, Frequency,

Modulation, and Symbol Rate manually by the remote control.

Network: Selects the Network ID setting mode among Auto or Manual.

Network ID: When Network is Manual, you can set up Network ID.

Frequency: Displays the frequency for the channel. (Differs in each country)

Modulation: Displays available modulation values.

Symbol Rate: Displays available symbol

rates.

Manual Tuning

Menu → Channel → Manual Tuning

Scans for a channel manually and stores in the TV.

- If a channel is locked using the Channel Lock function, the PIN input window appears.
- This function may not be supported depending on the region.

When Aerial Source is set to Air or Cable

- Digital Channel Tuning: Scans for a digital channel.

  1. Select the New.

     When selecting Aerial → Air: Channel, Frequency

     When selecting Aerial → Cable: Frequency, Modulation, Symbol Rate

  2. Select the Search. When scanning

has finished, a channel is updated in the channel list.

- Analogue Channel Tuning: Scans for a analogue channel.
  1. Select the New.
  2. Set the Programme, Colour System, Sound System, Channel and Search.
  3. Select the Store. When scanning has finished, a channel is updated in the channel list.

Channel mode

- P (programme mode): When tuning is complete, the broadcasting stations in your area have been assigned to position numbers from P0 to P99. You can select a channel by entering the position number in this mode.
- C (aerial channel mode) / S (cable channel mode): These two modes allow you to select a channel by entering the assigned number for

each aerial broadcasting station or cable channel.

Other Features

Clear Scrambled Channel

Menu → Channel → Clear Scrambled Channel

(It may be not supported in some regions.)

Remove scrambled channels from your Auto Tune channel list.

Guide Type

Menu → Channel → Guide Type

(Depending on the country)

Select to use either the built-in or downloaded guide.

Fine Tune

Menu → Channel → Fine Tune

(Analogue channels only)

If the reception is clear, you do not have to fine tune the channel, as this is done automatically during the search and store operation. If the signal is

weak or distorted, fine tune the channel manually. Scroll to the left or right until the image is clear.

- Settings are applied to the channel you're currently watching.
- Fine tuned channels that have been saved are marked with an asterisk "*" on the right-hand side of the channel number in the channel banner.
- To reset the fine-tuning, select the Reset.

LNA

Menu → Channel → LNA

If the TV is operating in a weak-signal area, the LNA function can improve the reception (a low-noise preamplifier boosts the incoming signal).

Changing the Preset Picture Mode

Picture Mode

Menu → Picture → Picture Mode

Picture modes apply preset adjustments to the picture.

When your TV is connected to a PC via an HDMI to DVI cable, you can only select Entertain and Standard.

- Dynamic

  Suitable for a bright room.

- Standard

  Suitable for a normal environment.
- Natural

  Suitable for reducing eye strain.
- Movie

  Suitable for watching movies in a dark room.
- Entertain

  Suitable for watching movies and games.

  ✎ Only available when the TV is

connected to a PC via an HDMI to DVI cable.

Adjusting Picture Settings

Backlight

Menu → Picture → Backlight

Adjusts the brightness of the screen by adjusting the brightness of the individual pixels.

Contrast

Menu → Picture → Contrast

Increases or decreases the contrast

between dark and light areas of the picture.

Brightness

Menu → Picture → Brightness

Adjusts the brightness of the screen. Not as effective as Backlight.

Sharpness

Menu → Picture → Sharpness

Sharpens or dulls the edges of objects.

Colour

Menu → Picture → Colour

Adjusts the colour saturation. The higher the Colour setting, the more intense the colour. Low settings remove colour and the picture becomes black, white, and gray.

Tint (G/R)

Menu → Picture → Tint (G/R)

Adjusts the amount of green and red in the picture. As you increase the amount of green, the amount of red decreases and vice versa.

To adjust picture quality, follow these steps:

1. Select an option you want to adjust. When you select an option, a slider screen appears.
2. Adjust the option value using your remote.

- When you change an option value, the change will affect the OSD menu also.
- When connecting a PC using an HDMI-DVI cable, Colour and Tint (G/R) are not available.
- You can adjust and store settings for each external device connected to the TV.
- Lowering picture brightness reduces power consumption.

Changing the Picture Size

Screen Adjustment

Menu → Picture → Screen Adjustment

Using this function, you can select various picture size and aspect ratio options.

- Picture Size

  If you have a cable box or satellite receiver, it may have its own set of screen sizes as well. However, we

highly recommend you use your TV's 16:9 mode most of the time.

If you have set Double ( , ) mode in PIP (Picture-in-Picture), you cannot adjust the Picture Size.

Auto Wide: Automatically adjusts the picture size to the 16:9 aspect ratios.

16:9: Adjusts the picture size to 16:9 for DVDs or wide broadcasting.

Wide Zoom: Magnifies the picture size more than 4:3.

Zoom: Magnifies the 16:9 wide pictures vertically to fit the screen size.

4:3: The default setting for a movie or normal broadcasting.

Do not watch in 4:3 format for a long time. Traces of borders displayed on the left, right and centre of the screen may cause image retention (screen burn) which is not covered by the warranty.

Screen Fit: Displays the full image

without any cut-off when HDMI (720p / 1080i / 1080p) or Component (1080i / 1080p) signals are inputted.

- Smart View 1: Reduces the 16:9 picture by 50%
- Smart View 2: Reduces the 16:9 picture by 25%

Smart View 1 is enabled only in HDMI mode.

Smart View 2 is enabled only in HDMI or DTV mode.

The picture size can vary when you play content from Videos in AllShare Play depending on the input resolution.

- Zoom/position

  Adjusts the picture zoom and position. Zoom is only available if Picture Size is set to Zoom. Position is only available if Picture Size is set to Wide Zoom, Zoom, or Screen Fit.

To use the Zoom function after selecting Zoom, follow these steps:

1. Select Zoom.
2. On the Zoom/position screen, select Zoom, and then zoom in or zoom out using your remote.
3. When done, select Zoom again, and then select Close.
4. To reset the picture, press Reset.

To use the Position function after

selecting Wide Zoom, Zoom or Screen Fit, follow these steps:

1. Select the Position.
2. On the Position screen, select Position, and then move the picture to position you want using your remote.
3. When done, select Position again, and then select Close.
4. To reset the picture position, select Reset.

Picture Sizes available by Input Source:

- ATV, AV: Auto Wide, 16:9, Wide Zoom, Zoom, 4:3
- DTV: Auto Wide, 16:9, Wide Zoom, Zoom, 4:3, Smart View2
- HDMI (720p, 1080i, 1080p): 16:9, Wide Zoom, Zoom, 4:3, Screen Fit, Smart View 1, Smart View2

- Component(480i,480p,576i,576p,

720p): 16:9,Wide zoom,Zoom,4:3; (1080i,1080p): 16:9,Wide zoom,Zoom,4:3,Screen Fit

- Depending on the input source, the picture size options may vary.
- The available items may differ depending on the selected mode.
- HD (High Definition): 16:9 – 1080i/1080p (1920x1080), 720p (1280x720)
- You can adjust and store settings

for each external device you have connected to an input on the TV. Select the Source, and then adjust the settings.

Advanced Settings

Menu → Picture → Advanced Settings

Using this function, you can configure advanced picture settings to create your preferred picture.

- Advanced Settings is available only when the Picture Mode is set to Standard or Movie mode.
- When connecting a PC using an

HDMI-DVI cable, you can only make changes to White Balance and Gamma.

- Dynamic Contrast

  Adjusts the screen contrast.

- Black Tone

  Darker settings make blacks look darker.

- Flesh Tone

  Adjusts the amount of red in skin tones.

- RGB Only Mode

  Displays the Red, Green and Blue colours so you can make fine adjustments to hue and saturation.

- Colour Space

  Adjusts the range and variety of colours (the colour space) available to create images.

  ✎ To adjust Colour, Red, Green, Blue and Reset, set the Colour Space to Custom.

- White Balance

  Adjusts the colour temperature of the picture so that white objects look white (instead of, for example, slightly pink or slightly yellow) and the overall colour of the picture looks natural.

  R-Offset / G-Offset / B-Offset: Adjusts each colour's (red, green, blue) darkness.

  R-Gain / G-Gain / B-Gain: Adjusts each colour's (red, green, blue) brightness.

Reset: Resets the White Balance to its default settings.

- 10p White Balance

  Lets you control the white balance by adjusting the red, green, and blue brightness in 10 point intervals.

  - Available when the Picture Mode is set to Movie. Available for all video source.
  - Some external devices may not support this function.

Interval: Select the interval to adjust.

Red: Adjusts the red level.

Green: Adjusts the green level.

Blue: Adjusts the blue level.

Reset: Resets the 10p White Balance to its default settings.

- Gamma

  Adjusts the primary colour intensity.

- Expert Pattern

  Use the Expert Pattern function to calibrate the picture. If the OSD menu

disappears or a menu other than the Picture menu is opened, the TV saves the calibration and the Expert Pattern screen disappears.

Off: Turns the Expert Pattern function off.

Pattern1: This test screen demonstrates the effect of your display settings on shades of grey and black.

Pattern2: This test screen demonstrates the effect of your display settings on

colours.

- After selecting Pattern1 or Pattern2, you can adjust any of the advanced settings for the desired effect.
- While the Expert Pattern is running, the TV does not output sound.
- Only enabled in DTV, Component, and HDMI modes.

- xvYCC

  Setting xvYCC on increases picture detail and enlarges the colour space

when you are watching movies input from an external device (e.g. BD/DVD player) connected to the TV's HDMI or Component IN jacks.

- Available only when you set the Picture Mode to Movie and the external input to Component.
- Some external devices may not support this function.

- Motion Lighting

  When on, the TV automatically

adjusts the brightness of the screen in response to the brightness of the room. In bright light, the screen brightens. In dim light, the screen dims.

- Only available in Standard mode.
- This feature is not supported in 3D mode.
- When you change the Backlight, Contrast or Brightness, the TV sets Motion Lighting to Off.

Picture Options

Menu → Picture → Picture Options

Using this function, you can configure additional picture settings to suit your preference.

When connecting a PC using an HDMI-DVI cable, you can only make changes to Colour Tone.

- Colour Tone

  Select the colour temperature.

  Warm1 or Warm2 will be deactivated

when the Picture Mode is set to Dynamic.

You can adjust and store settings for each external device connected to an input on the TV. Select Source and then adjust the settings.

- Digital Noise Filter

  If the broadcast signal received by your TV is weak, you can activate the Digital Noise Filter feature to reduce any static and ghosting that may appear on the

screen.

Auto Visualisation: When changing analogue channels, displays signal strength.

- When the signal is weak, try all the options until the TV displays the best picture.
- Only available for analogue channels.
- When the bar is green, you are receiving the best possible signal.

- MPEG Noise Filter

Reduces MPEG noise to provide improved picture quality.

- HDMI Black Level

  Lets you adjust the screen depth by selecting a black level.

  Available only in HDMI mode.

- Film Mode

  Sets the TV so that it senses and then processes film signals from all sources automatically and adjusts the picture for optimum quality.

Available in TV, AV, Component (480i/576i/1080i) and HDMI (1080i).

- Motion Plus

  Removes drag from fast scenes with a lot of movement to provide a clearer picture.

  The Info screen on your TV displays the resolution and frequency of the incoming signal (60Hz), but not the frequency the TV is generating for the image it is displaying by using

Motion Plus function.

- If noise occurs on the screen, please set Motion Plus to Off. If Motion Plus is set to Custom, you can control Blur Reduction and Judder Reduction manually and use Reset to reset both to their default settings.
- If Motion Plus is set to Demo, you can compare the difference between a picture with it on and off.

Blur Reduction: Adjusts the blur

reduction level from video sources.

Judder Reduction: Adjusts the judder reduction level from video sources when playing films.

Reset: Reset the custom settings to the factory defaults.

- LED Motion Plus

  Removes drag from fast scenes with a lot of movement to provide a clear picture.

Reset Picture

Menu → Picture → Reset Picture

Resets your current picture mode to its default settings.

Using Your TV as a Computer (PC) Display

Entering the Video Settings (Based on Windows 7)

For your TV to work properly as a computer display, you must enter the correct video settings. after you have connected the TV to your PC.

Depending on your version of

Windows and your video card, the procedure on your PC will probably differ slightly from the procedure presented here.

✎ However, the same basic information will apply in most cases. (If not, contact your computer manufacturer or Samsung Dealer.)

1. Click “Control Panel” on the Windows start menu.
2. Click “Appearance and Themes”

in the “Control Panel” window. A display dialog box appears.

3. Click “Display”. Another display dialog box appears.
4. Click the “Settings” tab on the display dialog box.
   - On the Settings tab, set the correct resolution (screen size). The optimal resolution for this TV is 1920 x 1080.
   - If a vertical-frequency option

exists on your display settings dialog box, select “60” or “60 Hz”. Otherwise, just click “OK” and exit the dialog box.

Changing the Preset Sound Mode

Sound Mode

Menu → Sound → Sound Mode

Sound mode is applied to preset adjustments to the sound.

If Speaker Select is set to External Speaker, Sound Mode is disabled.

- Standard

  Selects the normal sound mode.

- Music

Emphasizes music over voices.

- Movie

  Provides the best sound for movies.

- Clear Voice

  Provides the best sound for movies.

- Amplify

  Increase the intensity of high-frequency sound to allow a better listening experience for the hearing impaired.

Sound Effect

Menu → Sound → Sound Effect

- If Speaker Select is set to External Speaker, Sound Effect is disabled.
- Available only when the Sound Mode is set to Standard.

- Virtual Surround

  This function provides a virtual 5.1 channel surround sound experience

through a pair of speakers using HRTF (Head Related Transfer Function) technology.

- Dialog Clarity

  This function allows you to increase the intensity of voices over background music or sound effects so that dialog can be heard more clearly.

- Equaliser

  The Equaliser displays a series of sliders. Use the arrow buttons to select

a slider, and then change the slider's value. To Reset the Equaliser, select Reset. A pop-up appears asking if you want to reset. Select Yes. To exit, select Close.

Balance L/R: Adjusts the balance between the left and right speaker.

100Hz / 300Hz / 1kHz / 3kHz / 10kHz (Bandwidth Adjustment): Adjusts the volume level of specific bandwidth frequencies.

Reset: Resets the equalizer to its default settings.

3D Audio

Menu → Sound → 3D Audio

3D audio technology provides the immersive sound corresponding to the pop-up effect of 3D video by using audio depth control in perspective.

Available only when watching 3D images.

Broadcast Audio Options

Menu → Sound → Broadcast Audio Options

- Audio Language

  (Digital channels only)

  Change the default value for audio languages.

  ✎ The available language may differ depending on the broadcast.

- Audio Format

  (Digital channels only)

When sound is emitted from both the main speaker and the audio receiver, a sound echo may occur due to the decoding speed difference between the main speaker and the audio receiver. In this case, use the TV Speaker function.

- Audio Format option may differ depending on the broadcast. 5.1ch Dolby digital sound is only available when connecting an external speaker through an optical cable.

- Audio Description

  (Not available in all locations) (Digital channels only)

  This function handles the Audio Stream for the AD (Audio Description) which is sent along with the Main audio from the broadcaster.

  - Audio Description (Off / On): Turn the audio description function on or off.
  - Volume: Adjust the audio description

volume.

Additional Settings

- DTV Audio Level

  (Digital channels only)

  This function allows you to reduce the disparity of a voice signal (which is one of the signals received during a digital TV broadcast) to a desired level.

  ✎ According to the type of broadcast signal, MPEG / HE-AAC can be

adjusted between -10dB and 0dB.

To increase or decrease the volume, adjust between the range 0 and -10 respectively.

- SPDIF Output

  SPDIF (Sony Philips Digital InterFace) is used to provide digital sound, reducing interference going to speakers and various digital devices such as a DVD player.

  Audio Format: You can select the

Digital Audio output (SPDIF) format.

The available Digital Audio output (SPDIF) format may differ depending on the input source

Audio Delay: Correct audio-video sync problems, when watching TV or video, and when listening to digital audio output using an external device such as an AV receiver (0ms~250ms).

- Dolby Digital Comp

This function minimizes signal disparity

between a dolby digital signal and a voice signal (i.e. MPEG Audio, HE-AAC, ATV Sound).

Select Line to obtain dynamic sound, and RF to reduce the difference between loud and soft sounds at night time.

Line: Set the output level for signals greater or less than -31dB (reference) to either -20dB or -31dB.

RF: Set the output level for signals

greater or less than -20dB (reference) to either -10dB or -20dB.

Speaker Settings

Menu → Sound → Speaker Settings

- Speaker Select

  If you are listening to the sound track of a broadcast or movie through an external receiver, you may hear a sound echo caused by the difference in decoding speed between the TV's

speakers and the speakers attached to your audio receiver. If this occurs, set the TV to External Speaker.

- When Speaker Select is set to External Speaker, the TV's speakers are turned off. You will hear sound through the external speakers only. When the Speaker Select is set to TV Speaker, both the TV's speakers and the external speakers are on. You will hear sound through both.

- When the Speaker Select is set to External Speaker, the volume buttons and mute functions will not operate and the sound settings will be limited.
- If there is no video signal, both the TV's speakers and the external speakers will be mute.

- Auto Volume

  Normal: Automatically equalizes the volume level when switching to another

channel.

Night: Automatically equalizes and decrease the volume level on each channel, so each channel is quieter. Night is useful at night, when you may want to keep the volume low.

To use the volume control of a connected source device, set Auto Volume to Off. If Auto Volume is set to Normal or Night, adjusting the volume control of a connected

source device may have an effect.

Reset Sound

Menu → Sound → Reset Sound

Reset all sound settings to the factory defaults.

The Wired Network Connection

There are three ways to attach your TV to your LAN using cable:

- For illustrations of the three kinds of wired network connections, see your paper user's manual.

– You can attach your TV to your LAN by connecting the LAN port on the back of your TV to an external

modem using a LAN cable.

– You can attach your TV to your LAN by connecting the LAN port on the back of your TV to a router which is connected to an external modem. Use LAN cable for the connection.

– You may be able to attach your TV to your LAN by connecting the LAN port on the back of your TV directly to a network wall outlet using a LAN cable. Note that the wall outlet

is attached to a modem or router elsewhere in your house.

- If your network requires a Dynamic IP address, you should use an ADSL modem or router that supports the Dynamic Host Configuration Protocol (DHCP). Modems and routers that support DHCP automatically provide the IP address, subnet mask, gateway, and DNS values your TV needs to access the Internet so you

do not have to enter them manually. Most home networks use a Dynamic IP address.

- Some networks require a Static IP address. If your network requires a Static IP address, you must enter the IP address, subnet mask, gateway, and DNS values manually when you set up the network connection. To get the IP address, subnet mask, gateway, and DNS values contact

your Internet Service Provider (ISP). If you have a Windows computer, you can also get these values through your computer.

- You can use ADSL modems that support DHCP if your network requires a Static IP address. ADSL modems that support DHCP also let you use Static IP addresses.

The Wireless Network Connection

For an illustration of the wireless network connection, see your paper user's manual.

You can connect your TV to your LAN through a standard wireless router or modem.

This TV supports the IEEE 802.11a/b/g and n communication protocols. Samsung recommends using IEEE 802.11n. When you play video over a network connection, the video may not

play smoothly.

- To use a wireless network, your TV must be connected to a wireless router or modem. If the wireless router or modem supports DHCP, your TV can use a DHCP or static IP address to connect to the wireless network.
- Select a channel on the wireless router or modem that is not currently being used. If the channel set for the

wireless router or modem is currently being used by another device nearby, this will result in interference and communication failure.

- Your TV supports only the following wireless network security protocols:
  - Authentication Mode: WEP, WPAPSK, WPA2PSK
  - Encryption Type: WEP, TKIP, AES
- If you select the Pure High-throughput (Greenfield) 802.11n

mode and the Encryption type is set to WEP, TKIP or TKIP AES (WPS2Mixed) on your AP (access point) or wireless router, Samsung TVs will not support a connection in compliance with new Wi-Fi certification specifications.

If your wireless router or modem supports WPS (Wi-Fi Protected Setup), you can connect to the network via PBC (Push Button

Configuration) or a PIN (Personal Identification Number). WPS will automatically configure the SSID and WPA key in either mode.

- If your router, modem, or device is not certified, it may not connect to the TV.
- Connection Methods: You can set up the wireless network connection in four ways:

  – Using Auto Setup (with the Auto

Network Search function)

– Using Manual Setup

– Using WPS(PBC)

– Using Plug & Access

Setting up a Wired Network

Network Settings

Menu → Network → Network Settings

Set up the wired or wireless network connection so you can use various Internet services such as Smart Hub, AllShare Play and perform software upgrades.

Automatic Wired Network Setup

You can configure your TV's wired network connection automatically when connecting your TV to a network that supports DHCP.

If you have connected a LAN cable, the wired network set up screen appears automatically.

To set up your TV’s wired network connection automatically, follow these steps:

1. Go to the Network Settings screen. (Menu → Network → Network Settings)
2. Select Start. The network test screen appears and verifies the network connection.
3. When the connection has been verified, the "You are connected to the Internet. If you have any problems using online services, please contact your Internet service

provider." message appears. Select OK.

- If the connection process fails, check the LAN port connection.
- If the automatic process cannot find the network connection values or if you want to set the connection manually, go to the next section, "Manual Network Setup."

Manual Wired Network Setup

You can configure your TV's wired network connection manually when connecting your TV to a network that requires a Static IP address.

Getting the Network Connection Values

To view the Network connection values on most windows computers, follow these steps:

1. Right click the Network icon on the bottom right of the screen.

2. In the pop-up menu that appears, click Status.
3. On the dialog that appears, click the Support tab.
4. On the Support Tab, click the Details button. The Network connection values are displayed.

To set up your TV's wired network connection manually, follow these steps:

1. Go to the Network Settings screen. (Menu → Network → Network Settings)
2. Select Start. The network connection screen appears and the verification process starts.
3. Select Stop. The verification process stops. Select IP Settings on network connection screen. The IP Settings screen appears.
4. Select the IP Mode, and then set the

IP Mode to Manual.

5. Go to the IP Address entry field, and then select the IP Address using the remote.

6. Enter the first portion of the IP Address (for example, 105) into the first entry field using your remote. When done, go to the next field.

7. Enter the next portion of the IP Address. When done, go to the next field.

8. Repeat the entry process for each field in the IP Address.

   ✎ If you make a mistake when entering a number, re-enter the number to correct it.

9. When done, go to the Subnet Mask fields.

10. Repeat the same entry process for Subnet Mask, Gateway, and DNS Server.

11. When done, select OK. The network

test screen appears and the verification process starts. When the connection has been verified, the "You are connected to the Internet. If you have any problems using online services, please contact your Internet service provider." message appears. Select OK.

Network Status

You can check the current network and

Internet status.

If the wired network connection failed...

- **No network cable found.**

  Check if your network cable is plugged in. If it is connected, make sure that the router is turned on. If it is on, try turning if off and on again.

- **IP auto setting failed.**

  Try the following to set your IP address automatically or set your IP address

manually by selecting IP Settings.

1) Ensure that DHCP server is enabled on the router.

2) Unplug and re-plug-in the router.

3) Contact your Internet Service Provider for more information.

- **Unable to connect to the network.**

  Try the following: check if your IP address is set correctly in IP Settings. Contact your Internet Service Provider for more information.

- **Connected to your local network, but cannot connect to the Internet.**

  Check the DNS settings in IP Settings or contact your Internet Service Provider to access the Internet.
- **Network setup complete, but cannot connect to the Internet.**

  Contact your Internet Service Provider to access the Internet.

Setting up the Wireless Network

Network Settings

Menu → Network → Network Settings

Set up the wired or wireless network connection so you can use various Internet services such as Smart Hub, AllShare Play and perform software upgrades.

Automatic Wireless Network Setup

Most wireless networks have an optional security system that requires devices that access the network to transmit an encrypted security code called an Access or Security Key. The Security Key is based on a Pass Phrase, typically a word or a series of letters and numbers of a specified length you were asked to enter when you set up security for your wireless network.

If you use this method of setting up

the network connection, and have a Security Key for your wireless network, you will have to enter the Pass Phrase during the automatic or manual setup process.

Depending on your router or modem, you may be able to use a WPS PIN instead.

To set up your TV's wireless network connection automatically, follow these

steps:

1. Go to the Network Settings screen. (Menu → Network → Network Settings)
2. Select Start. The network function searches for available wireless networks. When done, it displays a list of the available networks.
3. In the list of networks, select a network you want to connect to, and then select Next.

If the wireless router is set to Hidden (Invisible), you have to select Add Network and enter the correct Network Name (SSID) and Security Key to establish the connection.

4. If the Enter security key screen appears, go to step 5. If you selected a wireless router that does not have security, go to step 7.

5. If the router has security, enter the

Security Key (Security key or PIN).

- When you enter the Security Key (Security key or PIN), using your remote.
- You should be able to find the Pass Phrase on one of the set up screens you used to set up your router or modem.

6. When done, select Next. The network connection screen appears and the verification process starts.

7. When the connection has been verified, the “You are connected to the Internet. If you have any problems using online services, please contact your Internet service provider.” message appears.

- If the network does not accept the Security Key or PIN, select Retry or select IP Settings to enter the settings manually.

- If you want to set up the connection

manually, select IP Settings. Then, go to the next section, “Manual Network Setup”.

Manual Wireless Network Setup

You can configure your TV's wireless network connection manually when connecting your TV to a network that requires a Static IP address or if the automatic connection process has failed.

Getting the Network Connection Values

To view the Network connection values on most Windows computers, follow these steps:

1. Right click the Network icon on the bottom right of the screen.
2. In the pop-up menu that appears, click Status.
3. On the dialog that appears, click the Support tab.

4. On the Support Tab, click the Details button. The Network connection values are displayed.

To set up your TV's wireless network connection manually, follow these steps:

1. Go to the Network Settings screen. (Menu → Network → Network Settings)
2. Select Start. The network function

searches for available wireless networks. When done, it displays a list of the available networks.

3. In the list of networks, select a network you want to connect to, and then select Next.

   If the wireless router is set to Hidden (Invisible), you have to select Add Network and enter the correct Network Name (SSID) and Security Key to establish the

connection.

4. If the Enter security key screen appears, go to step 5. If you selected a wireless router that does not have security, go to step 7.
5. Enter the Security Key (Security key or PIN).

   ✎ Enter the security key, using a keyboard screen.

   ✎ You should be able to find the Pass Phrase on one of the set up

screens you used to set up your router or modem.

6. When done, select Next. The network connection screen appears and the verification process starts.

7. Select Stop. The verification process stops. Select IP Settings on the network connection screen. The IP Settings screen appears.

8. Select IP Mode, and then set the IP Mode to Manual.

9. Go to the IP Address entry field, and then select the IP Address using the remote.

10. Enter the first portion of the IP Address (for example, 105) into the first entry field using your remote. When done, go to the next field.

11. Enter the next portion of the IP Address. When done, go to the next field.

12. Repeat the entry process for each

field in the IP Address.

If you make a mistake when entering a number, re-enter the number to correct it.

13. When done, go to the Subnet Mask fields.

14. Repeat the same entry process for Subnet Mask, Gateway, and DNS Server.

15. When done, select OK. The network connection screen appears and the

verification process starts. When the connection has been verified, the "You are connected to the Internet. If you have any problems using online services, please contact your Internet service provider." message appears.

WPS(PBC) Network Setup

If your router has a WPS(PBC) button, you can configure your TV's wireless network connection using the

WPS(PBC) button quickly and easily.

To set up your TV's wireless network connection using WPS(PBC), follow these steps:

1. Go to Network Settings screen. (Menu → Network → Network Settings).
2. Select Start. The Network function searches for available wireless networks. When done, it displays a

list of the available networks.

3. Select the WPS(PBC).
4. Press the WPS(PBC) button on your router within two minutes. Your TV automatically acquires all the network setting values it needs and connects to your network.
5. The network connection screen appears, and network setup is done.

Plug & Access Network Setup

The Plug & Access function lets you easily connect your Samsung TV to your Samsung wireless router (sold separately) by using a USB memory stick to transfer the setup information from the router to the TV. If your non-Samsung wireless router does not support Plug & Access, you must connect using one of the other methods.

Samsung router dose not necessarily

in all regions can be bought.

You can check for equipment that supports Plug & Access on www.samsung.com.

To set up your TV's wireless network connection using Plug & Access, follow these steps:

1. Turn on the Samsung wireless router and your TV.
2. Insert a USB memory stick into the

USB port in your Samsung wireless router. Check the router's LED's to make sure it is on (Blinking → on).

3. Take the USB memory stick out of the router, and then insert it into a USB port on your Samsung TV. The memory stick downloads the connection information.

4. Wait until the connection is automatically established.

If Plug & Access does not connect

your TV to your wireless router, a popup screen appears on the screen notifying you of the failure. If you want to try using Plug & Access again, disconnect the USB memory stick, reset the router, and then try again from Step 1. You can also choose one of the other connection setup methods.

5. The network connection screen appears, and the network setup is

done.

If the wireless router's settings change or you install a new wireless router, you must perform the Plug & Access procedure again, beginning from Step 1.

Priority QOS

Samsung wireless routers are optimized to stream HD AV to Samsung DTVs.

The Priority QOS function is unique to Samsung wireless routers.

You can connect a Samsung wireless router to many devices, such as laptops, mobile phones, BD players etc. But, when you connect a Samsung TV to a Samsung wireless router, the Samsung wireless router gives the Samsung TV a priority connection.

This ensures you get the highest quality streaming contents and the fastest throughput speed.

If Your TV Fails to Connect to the Internet

Your TV may not be able to connect to the Internet because your ISP has permanently registered the MAC address (a unique identifying number) of your PC or modem, which it then authenticates each time you connect to the Internet as a way of preventing unauthorized access. As your TV has a different MAC address, your ISP can not authenticate its MAC address, and your TV can not connect.

To resolve this problem, ask your ISP about the procedures required to connect devices other than a PC (such as your TV) to the Internet.

- **Priority QOS makes your TV faster by giving it priority bandwidth. (Priority QOS is optional. You can turn it on and off.)**

- **Because your Samsung TV has a priority connection, you can enjoy HD content without buffering.**

  - The connection speed may vary based on the network environment.
  - If your Internet service provider requires an ID or password to connect to the Internet, your TV may not be able to connect to the Internet. If this is the case, you must enter your ID or password when connecting to the Internet.
  - The internet connection may fail because of a firewall problem. If this is the case, contact your Internet service provider.
  - If you cannot connect to the Internet even after you have followed the procedures of your Internet service provider, please contact Samsung Electronics.

Network Status

You can check the current network and Internet status.

If the wireless network connection failed...

- **Wireless network connection failed.**

  No wireless router selected. Go to Network Settings to select your router.

- **Unable to connect to wireless router.**

  Try the following: check if the router is turned on, and if it is, try turning it

off and on again. Check if you need to enter a security key to use the router.

- **IP auto setting failed.**

  Try the following to set your IP address automatically or set your IP address manually by selecting 'IP Settings'.

  1) Ensure that DHCP server is enabled on the router.

  2) Unplug and re-plug-in the router.

  3) Contact your Internet Service Provider for more information.

- **Unable to connect to the network.**

  Try the following: check if your IP address is set correctly in IP Settings. Contact your Internet Service Provider for more information.

- **Connected to your local network, but cannot connect to the Internet.**

  Check the DNS settings in IP Settings, or contact your Internet Service Provider to access the Internet.

- **Network setup complete, but cannot**

connect to the Internet.

Contact your Internet Service Provider to access the Internet.

Wi-Fi Direct

Menu → Network → Wi-Fi Direct

Set to connect the TV to wireless mobile devices. Using this function, you can connect wireless mobile devices to your TV directly without a router.

To connect your mobile device with your TV using Wi-Fi Direct, follow

these steps:

1. Go to the Wi-Fi Direct screen (Network → Wi-Fi Direct). The TV starts to search devices, and then displays the devices on the Wi-Fi Direct screen.
2. Turn on the Wi-Fi Direct function on your device. Select the desired Wi-Fi device.
   - For PBC: Press the WPS(PBC) button on your Wi-Fi device

within 2 minutes. The Connecting popup appears, followed by the Connected pop-up. When it closes, you should see the device listed on the Wi-Fi Direct screen as connected.

– PIN: Input the displayed PIN on your device.

If you want to disconnect the device, select the connected Wi-Fi device, and then select Disconnect. The

Connecting popup appears, followed by the Connected pop-up. When it closes, you should see the device listed on the Wi-Fi Direct screen as Disconnected.

The TV and BD products perform the role of the Group Owner. If a TV or BD is connected via Wi-Fi Direct, the connected device is represented as a Group Owner in the Wi-Fi Direct list. However, even in this case, the TV

cannot connect to another TV or BD through Wi-Fi Direct.

Soft AP

Menu → Network → Soft AP

Using this function, you can connect the TV to your mobile devices if your mobile device does not support Wi-Fi Direct.

The Soft AP screen lets you set the options for connecting Wi-Fi devices.

- Soft AP

  Turns Soft AP on or off. When Soft AP is set to On, your mobile devices can find the TV's network name in their Wi-Fi connection list.

- Security Key

  Enter a Security Key at least 8 characters long using the remote control. Select Done when finished.

  – If the security key is not at least 8 characters long, Done is not

available.

- To connect a mobile device to the TV, you must input the security key into the device.
- If network does not operate correctly, check the security key again. An incorrect security key may cause a malfunction.

Using Wi-Fi Direct or Soft AP, you can share data through AllShare Play.

(For only some of the mobile device models among the mobile device models supporting Wi-Fi Direct or Soft AP.)

	Wi-Fi Direct	Soft AP
Number of Wi-Fi devices that can be connected	Up to 5	Up to 5
Data sharing	Supported through AllShare (only for supported mobile device models.)	Only through AllShare

AllShare Settings

Menu → Network → AllShare Settings

AllShare Play lets you play Videos, Photos, or Music located on your PC or

your DLNA compatible device on the TV using a network connection. It also lets you control the TV through these devices.

The AllShare Settings screen lists your network connected AllShare devices and their IP addresses. Through this screen, you can allow a device to access the TV, deny access, or delete the device from the AllShare list.

The AllShare Settings screen only

displays devices if you have established networked connections to AllShare devices. Otherwise, it will be empty.

To use the AllShare network function, you must install the AllShare network software on your PC. For details on set up options, refer to "Using the AllShare Play Functions".

Device Name

Menu → Network → Device Name

Enter a name for this TV. This name will be shown on network remote controls and devices using AllShare Play.

- A keyboard appears on the screen. Key in a name for your TV manually using your remote control. For example, if you want to change the name to Samsung TV, select each character using your remote. When done, select Done.

Setting the Time

Time

Menu → System → Time

> The current time will appear every time you select Information using your remote.

- Clock

  Set the clock to use the various timer features of the TV.

  > If you disconnect the power cord,

you have to set the clock again.

Clock Mode: Set the current time manually or automatically.

– Auto: The TV sets the current time automatically using the time from a digital channel.

  ✎ You must have the cable or an aerial connected to the TV to set the time automatically.

  ✎ Depending on the broadcast station and signal, the auto time

set up may not be correct. In this case, set the time manually.

– Manual: Set the current time manually.

Clock Set: Set the Date and Time manually. You can set the current date and time using your remote.

Available only when the Clock Mode is set to Manual.

Time Zone: Select your time zone.

This function is only available when

the Clock Mode is set to Auto.

- Sleep Timer

  Automatically shuts off the TV after a preset period of time. (30, 60, 90, 120, 150, or 180 minutes).

  Select a period of time using your remote. To cancel the Sleep Timer, select Off.

- On Timer

  Set On Timer so that your TV turns on automatically at a time and on a day

of your choosing. You can set up three separate On Timer configurations. (On Timer 1, On Timer 2, On Timer 3)

You must set the clock before you can use the On Timer function.

Setup: Select Off, Once, Everyday, Mon~Fri, Mon~Sat, Sat~Sun or Manual. If you select Manual, you can choose the days you want On Timer to turn on your TV.

The ✓ mark indicates days you've

selected.

Time: Set the time that the TV turns on automatically.

Volume: Set the desired volume level. Change the volume level using your remote.

Source: To select what will be turned on when the timer setting is activated. You can set the TV to turn on a specific channel or play back contents such as video, photo or audio files located in an

external device connected to the TV.

- The USB device must be connected to your TV before you can select USB.

Aerial (when the Source is set to TV): Select ATV or DTV.

Channel (when the Source is set to TV): Select the desired channel.

Music / Photo (when the Source is set to USB): Select a folder in the USB device containing music or photo files

you want played when the TV turns on automatically.

- If there is no music file on the USB device or you don't select a folder containing a music file, the Timer function does not operate correctly.
- If there is only one photo file in the USB, the slide show will not play.
- If a folder name is too long, the folder cannot be selected.
- Each USB you use is assigned its

own folder. When using more than one of the same types of USB, make sure the folders assigned to each USB have different names.

- We recommend that you use a USB memory stick and a multi card reader when using the On Timer. The On Timer function may not work with USB devices that have a built-in battery, MP3 players, or PMPs made by some manufacturers because the

TV can take too long to recognize these devices.

If you set the On Timer to play a file saved on a USB HDD, it may take up to 40 seconds or more to play the file after the TV is turned on.

- Off Timer

  Set Off Timer so that your TV turns off automatically at a time and on a day of your choosing. You can set up three separate Off Timer configurations. (Off

Timer 1, Off Timer 2, Off Timer 3)

You must set the clock before you can use the Off Timer.

Setup: Select Off, Once, Everyday, Mon~Fri, Mon~Sat, Sat~Sun or Manual. If you select Manual, you can choose the days you want Off Timer to turn off your TV.

The ✓ mark indicates days you've selected.

Time: Set the time that the TV turns off

automatically.

Blocking Programmes

Security

Menu → System → Security

Using this function, you can configure programme related security options. Every time you access the Security functions, the PIN screen will appear and you must enter that PIN. The PIN screen closes and the Security menu appears.

- Channel Lock

  Lock channels in Channel menu, to prevent unauthorized users, such as children, from watching unsuitable programme.

  Available only when the Source is set to TV.

- Change PIN

  The Change PIN screen will appear. Choose any 4 digits for your PIN and enter them in the Enter New PIN. Re-

enter the same 4 digits in the Confirm New PIN. When the Confirm screen disappears, select Close. The TV has memorised your new PIN.

Economical Solutions

Eco Solution

Menu → System → Eco Solution

- Energy Saving

  Lets you adjusts the brightness of the TV in order to reduce power consumption. If you select Picture Off, the screen is turned off, but the sound remains on. Press any button except the volume button to turn on the

screen.

- Eco Sensor

  To enhance your power savings, the picture settings will automatically adapt to the light in the room.

  ✎ If you adjust Backlight in the Picture menu, the Eco Sensor is set to Off automatically.

  Min. Backlight: When the Eco Sensor is set to On, you can manually adjust the minimum screen brightness.

If the Eco Sensor is set to On, the display brightness may change (become slightly darker or brighter) depending on the surrounding light intensity. You can control the screen's minimum brightness with the Min. Backlight function.

- No Signal Power Off

  To avoid unnecessary energy consumption, you can set how long you want the TV to remain on if it's not

receiving a signal.

Disabled when an attached PC is in power saving mode.

- Auto Power Off

  The TV will automatically turn off if you don’t press a button on your remote or TV controller within 4 hours to prevent overheating.

Picture In Picture (PIP)

PIP

Menu → System → PIP

You can watch a programme whose signal has passed through the TV's tuner and watch video from one external video source simultaneously.

For example, if you have a cable box connected to the Cable In jack, you can use PIP to watch programmes from the

cable box and a movie from a Blu-ray player attached to the HDMI In jack.

While Smart Hub is on, you cannot use the PIP.

- PIP

  Activate or deactivate the PIP function.

- Air/Cable

  Select either Air or Cable as the input source for the sub-picture screen.

- Channel

  Select the channel for the sub-picture

screen.

- Size

  Select a size for the sub-picture screen.

- Position

  Select a position for the sub-picture screen.

  ✎ In Double (▣▣, ▣▣) mode, you cannot select Position.

- Sound Select

  You can choose to listen to the sound from the main picture or the sub

picture.

- If you turn the TV off while watching in the PIP mode, the PIP function is reset to Off. When you turn your TV on, you must turn PIP on again to watch in the PIP mode.
- You may notice that the picture in the PIP screen becomes slightly unnatural when you use the main screen to view a game or karaoke.
- PIP does not work when the 3D

function is active.

- PIP Settings: The picture from the external video source will be in the main screen and the picture from the TV's tuner will be in the PIP sub-picture screen.
  - Main picture: Component, HDMI
  - Sub picture: TV

Device Manager

Menu → System → Device Manager

Using this function, you can set up a keyboard or mouse to use with the TV. You can view your device lists and adjust keyboard or mouse settings in this menu.

Depending on the model of the USB HID keyboard and mouse may not be

compatible with your TV.

- Keyboard settings

  Lets you use a USB or Bluetooth keyboard with your TV. If you want to use a USB keyboard, connect it to the USB port. If you want to use a Bluetooth keyboard, connect it using the Bluetooth function.

  ✎ You can use the keyboard only when the QWERTY keypad screen appears in the Web Browser.

Select keyboard

Select which keyboard to use from your keyboard list. You can only use one keyboard at a time, even if several are connected.

Add Bluetooth Keyboard

You can add a Bluetooth keyboard.

Keyboard Options

Sets the default options for the keyboard language and type.

– Keyboard Language: Set a language

for your keyboard.

- Keyboard type: Set what a type of keyboard you're using to enter text.
- Switch Input Language: Select a key sequence to change switching input language.

- Mouse settings

  Lets you use a USB or Bluetooth mouse with your TV. If you want to use a USB mouse, connect it to the USB port. If you want to use a Bluetooth mouse,

connect it using the Bluetooth function.

You can use a mouse in the TV's menu in the same way you use a mouse on your PC.

Select mouse

Select which mouse to use from your mouse list. You can only use one mouse at a time, even if several are connected.

Add Bluetooth mouse

You can add a Bluetooth mouse.

Mouse Options

Sets the default options for the mouse buttons.

- Primary Button: Select the main button you want to use to click and select on screen.
- Pointer Size: Set the size of the on-screen mouse pointer.
- Pointer Speed: Select the speed of the mouse pointer.

Using the TV's menu with a mouse

1. Connect a USB or Bluetooth mouse on your TV.
2. Click a primary button you selected. The Go To pop-up appears.
3. Select Smart Hub or Menu in Go To.
4. Use the mouse the same way you would use a mouse on your computer. For example, to open Channel on the Smart Hub screen, click the Channel icon.

- To exit an entry field that does not close, click ↩ Return.
- To exit a menu or Smart Hub screen, click ↩ Return.
- To hide the mouse pointer, move it slightly off the bottom of the screen.

Other Features

Language

Menu → System → Language

- **Menu Language**

  Set the menu language.

- **Preferred Language**

  Select a language, which will be the default language when a channel is selected.

Subtitle

(On-Screen Text Messages)

Menu → System → Subtitle

Use this menu to set the Subtitle mode.

- Subtitle

  Switches subtitles on or off.

- Subtitle Mode

  Sets the subtitle mode.

- Subtitle Language

  Sets the subtitle language.

  If the programme you are

watching does not support the Hearing Impaired function, Normal automatically activates even if the Hearing Impaired mode is selected.

- English is the default in cases where the selected language is unavailable in the broadcast.

Auto Protection Time

If the screen displays a still image for a certain period of time you define, the

TV activates the screen saver to prevent the formation of burnt in ghost images on the screen.

General

Menu → System → General

- Game Mode

  When you have connected a game console such as a PlayStation™ or Xbox™ to the TV, you can enjoy a more realistic gaming experience if you

set the Game Mode on.

Precautions and limitations for Game Mode

- Before disconnecting a game console and connecting another external device, set Game Mode to Off.
- If you display the TV menu in Game Mode, the screen shakes slightly.

Game Mode is not available when the input source is set to TV.

Set Game Mode to On only after connecting a game console. If you turn Game Mode on before you have attached the game console, you may notice reduced picture quality.

If Game Mode is set to On, Picture Mode is set to Standard and Sound Mode is set to Movie automatically.

- BD Wise

  Provides the optimal picture quality for Samsung DVD, Blu-ray, and Home

Theatre products which support BD Wise. When the BD Wise is set to On, the picture mode is automatically changed to the optimal resolution.

Available when you connect Samsung products that support BD Wise through an HDMI cable to the TV.

- Menu Transparency

  Adjust transparency of menu box.

- Sound Feedback

Your TV gives sound feedback when you use TV. Sound Feedback is enabled by default. Turn off Sound Feedback or adjust its volume.

- Panel Lock

  Lock or unlock all the keys on the TV Controller at once. When Panel Lock is on, the TV Controller does not operate.

- Boot Logo

  Displays the Samsung logo when the TV is turned on.

- Light Effect

  You can turn the LED on/off on the front of TV. Turn it off to save power or if the LED is too bright for you.

  - Set the Light Effect to Off to reduce the power consumption.
  - The colour of light may vary depending on the model.

Anti Flicker

Anti Flicker 50Hz/60Hz.

Anynet+ (HDMI-CEC)

Menu → System → Anynet+ (HDMI-CEC)

Allows you to control all connected Samsung devices that support anynet+ with your Samsung TV's remote.

For details on set up options, refer to the "Anynet+ (HDMI-CEC)" instructions.

DivX® Video On Demand

Menu → System → DivX® Video On Demand

Shows the registration code authorized for the TV. If you connect to the DivX web site and register with 10-digit registration code, you can download the VOD activation file. Once you play it using Media Play, the registration is completed.

- For more information on DivX(R) VOD, visit http://vod.divx.com.

Support Menu

e-Manual

Menu → Support → e-Manual

The e-Manual is built into your TV. Open the e-Manual to learn how to use your TV are many features.

For the detailed information about the e-Manual Screen, refer to “How to view the e-Manual” in the User’s Manual.

Self Diagnosis

Menu → Support → Self Diagnosis

- Picture Test

  Use to check for picture problems. Picture Test displays a high definition picture that you can examine for flaws or faults.

  Yes: Select Yes if the test picture does not appear or there is noise or distortion in the test picture. There

may be a problem with the TV. Contact Samsung's Call Centre for assistance.

No: Select No if the test picture displays properly. There may be a problem with your external equipment. Please check your connections. If the problem persists, refer to the external device's user manual.

- Sound Test

  Use the built-in melody to check for sound problems.

- If you hear no sound from the TV's speakers, before performing the sound test, make sure Speaker Select is set to TV Speaker in the Sound menu, and then try the speakers again.
- You will hear the melody during the test even if you have set Speaker Select to External Speaker or have muted the sound.

Yes: Select Yes if you can hear sound

from only one speaker or from neither speaker during the sound test. There may be a problem with the TV. Contact Samsung's Call Centre for assistance.

No: Select No if you can hear sound from the speakers. There may be a problem with your external equipment. Please check your connections. If the problem persists, refer to the external device's user manual.

- Signal Information

(Digital channels only)

The reception quality of over-the-air HD channels is either perfect or the channels are unavailable. Signal Information displays HD channel signal strength so you can adjust your aerial to increase signal strength and receive HD channels.

- Reset

  Reset all setting to factory defaults except for your network settings.

To reset your TV to its default settings, follow these steps:

1. Go to the Reset menu. (Support → Self Diagnosis → Reset)
2. The PIN input screen appears. Enter the four digit security PIN using your remote.
3. When done, the PIN screen disappear. The message "All settings,except network settings,will return to

factory defaults." appears.

4. Select Yes. All settings are reset. The TV will turn off and on again automatically. The Setup screen appears. For more information about Setup, see the paper user manual.

- Troubleshooting

  If your TV seems to be having a problem, access the troubleshooting guide for a solution.

Software Update

Menu → Support → Software Update

The Software Update menu lets you upgrade your TV's software to the latest version.

Current Version: This is the software version already installed in the TV.

Upgrading to the Latest Version you can upgrade in five ways:

- By USB

– Online

– By Channel for Hongkong models

– Alternative Software

– Standby Mode Upgrade

The five methods are explained in the following pages.

Be careful not to turn off the power until the upgrade is complete. The TV will turn off and on automatically after completing the software upgrade. When you upgrade

software, all video and audio settings you have made will return to their default settings. We advise you to write down your settings so that you can easily reset them after the upgrade.

- By USB

To upgrade the By USB, follow these steps:

1. Visit www.samsung.com.

2. Download the latest USB software upgrade exe archive to your computer.
3. Extracts the exe archive to your computer. You should have a single folder with the same name as the exe file.
4. Copy the folder to a USB flash drive.
5. Turn on the TV, and then insert the USB flash drive into the USB port of the TV.

6. In the TV's menu, go to Support → Software Update.
7. Select the By USB.

Please be careful not to remove the USB drive until the upgrade is complete.

- Online

  The Online function lets you download the upgrade software directly from the Internet into your TV and then upgrade the software in one operation. To use

Online, you must have configured your TV to connect to your network and the TV must be connected to the Internet. See the "Setting up the Network" instructions.

To upgrade using the Online, follow these steps:

1. Select the Online. The Connecting to Server message appears.
2. If there is a download available,

the Download popup appears with a progress bar and the download starts.

3. When the download is complete, the Upgrade Query screen appears with three choices: Upgrade Now, Upgrade Later, or Don't Upgrade.
   - If you select Upgrade Now, the TV upgrades the software, turns off, and then turns on automatically.
   - If you do not make a selection

in one minute or select Upgrade Later, the TV stores the new upgrade software. You can upgrade the software later using the Alternative Software function.

– If you select Don't Upgrade, the TV cancels the upgrade.

- By Channel for Hongkong models

  Upgrade the software using the broadcasting signal.

  If the function is selected during

the software transmission period, software will be automatically searched and downloaded.

The time required to download the software is determined by the signal status.

- Alternative Software

  The Alternative Software option lets you upgrade using a file the TV downloaded earlier, but you decided not to install immediately, or a file

downloaded by the TV in Standby Mode (See Standby Mode Upgrade in the next section).

To upgrade using Alternative Software, follow these steps:

1. If upgrade software has been downloaded, you will see the software version number to the right of Alternative Software.
2. Select Alternative Software.

3. The TV displays a message asking if you want to upgrade. Select Yes. The TV begins the upgrade.

4. When the upgrade is complete, the TV turns off automatically, and then turns on.

- Standby Mode Upgrade

  You can set the Standby Mode Upgrade function so that the TV downloads new upgrade software when it is in Standby mode.

In Standby mode, the TV is off, but its Internet connection is active. This allows the TV to download upgrade software automatically, when you are not using it. Because the TV is turned on internally, the screen may glow slightly. This phenomenon may continue for more than 1 hour until the software download is complete.

To set Standby Mode Upgrade, follow

these steps:

1. Select the Standby Mode Upgrade.
2. Select Off, 1 hour later, 2 hours later, 0:00, 2:00, 12:00 or 14:00.
   - Off: If you select Off, the TV will notify you with a pop up message when new upgrade software is available.
   - Off, 1 hour later, 2 hours later, 12:00 AM, 02:00 AM, 12:00 PM, 02:00 PM: The TV will automatically

download new upgrade software when it is in Standby mode with the power off.If downloaded new software, it will pop up a message which enquiries wether you want to install it or not when you turn on the TV.

- To use the Standby Mode Upgrade function, your TV must be connected to the Internet.

Contact Samsung

Menu → Support → Contact Samsung

View this information when your TV does not work properly or when you want to upgrade the software. You can find information regarding our call centres and how to download products and software.

Remote Management

Menu → Support → Remote Management

The Call Center will access your Samsung Product remotely to check internal information. Remote Management can control user settings and troubleshoot a problem. Use Remote Management only when you have a problem, and contact our Call Centre first, before you activate Remote Management.

You can find the current number of our Call Centre on the Support page

at www.samsung.com under Contact support.

Smart Hub

Menu → Support → Smart Hub

Smart Hub lets you connect to the Internet and enjoy a variety of Internet and multimedia contents. For more information on how to use the Smart Hub, see “Smart Hub” in the e-Manual.

Using the 3D function

3D

Menu → Picture → 3D

This exciting new feature enables you to view 3D content. To fully enjoy this feature, you must need a pair of Samsung 3D Active Glasses to view 3D video.

IMPORTANT HEALTH AND SAFETY

INFORMATION FOR 3D PICTURES.

Read and understand the following safety information before using the TV's 3D function.

⚠ Warning

- Some viewers may experience discomfort while viewing 3D TV such as dizziness, nausea and headaches. If you experience any such symptom, stop viewing 3D TV; remove the 3D Active Glasses and rest.
- Watching 3D images for an extended

period of time may cause eye strain. If you feel eye strain, stop viewing 3D TV; remove your 3D Active Glasses and rest.

- A responsible adult should frequently check on children who are using the 3D function. If there are any reports of tired eyes, headaches, dizziness, or nausea, have the child stop viewing 3D TV and rest.

- Do not use the 3D Active Glasses

for other purposes (such as general eyeglasses, sunglasses, protective goggles, etc.)

- Do not use the 3D function or 3D Active Glasses while walking or moving around. If you use the 3D function or 3D Active Glasses while walking or moving around you can injure yourself by running into objects, tripping, or falling.

- 3D Mode

Select the 3D input format.

If you want to experience the 3D effect fully, put the 3D Active Glasses on first, and then select the 3D Mode from the list below that provides the best 3D viewing experience.



: Turns the 3D function off.



: Changes a 2D image to 3D.


: Displays two images next to each other.


: Displays one image above another.

: Displays the images for the left and right eye alternately in rows.

: Displays the images for the left and right eye alternately in columns.

: Displays the images for the left and right eye alternately in pixels.

: Displays the images for the left and right eye alternately in frames.

- The 3D Mode may differ depending on the input signal.
- Some file formats may not support



- The  and  are available when the resolution is 720p, 1080i and 1080p in DTV, HDMI, and USB mode or when your PC is connected through an HDMI/DVI cable.
- The  ,  and  are available your PC is connected through an HDMI/DVI cable.
- The  displays the frequency (60Hz only) when the TV's resolution is

1920 x 1080.

- 3D Effect

  Adjust 3D effects like perspective and depth for your preferred 3D viewing experience.

  – Auto: Automatically adjust the perspective and depth settings in accordance with the 3D input source.

  – Manual: Manually adjust the perspective and depth settings.

- 3D Perspective

Adjusts the overall 3D perspective of on-screen image.

- Depth

  Adjusts the overall depth.

- L/R Change

  Swaps the left and right pictures.

- 3D Auto View

  If 3D Auto View is set to On, a “Side by Side” format HDMI signal with one of the resolutions below is automatically switched to 3D. If you set 3D Auto

View to Message Alert, a pop up message window appears when the TV receives a 3D signal. Then you can view a 3D image by selecting 3D using your remote.

- If a 3D failure occurs due to a 3D information error, set 3D Auto View to Off and select the 3D Mode manually.
- In USB mode, this function is available only when the resolution is

1280 X 720p, 1920 X 1080i, or 1920 X 1080p.

- When you run some applications (such as Smart Hub, etc.), TV will not switch to 3D. To switch to 3D, you must exit the application first.

- 3D Optimisation

  Automatically adjusts the picture overall to provide an optimal 3D effect.

3D Supported resolutions (16:9 only)

Resolution	Frequency (Hz)
1280 x 720p	25 / 50 Hz
1920 x 1080i	25 / 50 Hz
1920 x 1080p	25 / 50 Hz

Resolution supported for HDMI PC mode

The optimal resolution for 3D in the HDMI PC mode is 1920 x 1080.

If the input resolution is not 1920 x 1080, the TV may not display images properly in 3D display or full screen mode.

How to watch the 3D images

Some 3D modes may not be available depending on the format of the image source.

To watch in 3D, you must wear 3D Active Glasses and turn the glasses on by pressing the power button.

1. Go to the 3D screen. (Picture → 3D)
2. Select the 3D Mode, The 3D Mode screen appears.

3. Select the 3D Mode option for the image you want to view. The screen goes blank for a moment, and then reappears in the 3D mode you selected.

Supported formats and operating specifications for Standard HDMI 3D

- The 3D formats listed below are recommended by the HDMI association and must be supported

by 3D TVs.

Source signal format	Standard HDMI 1.4 3D
1920x1080p @ 24Hz x 2	1920x2205p @ 24 Hz
1280x720p @ 50 / 60Hz x 2	1280x1470p @ 50 / 60 Hz

For the Standard HDMI 3D format with 24Hz, the TV is optimized as follows:

- **Resolution First Display Mode**: If Motion Plus is set to Off, Clear or Standard, you can watch the video at a high resolution optimized to the resolution of the source video.

- **Judder Reduction Display Mode**: When Motion Plus is set to Smooth or Custom, you can watch a smooth picture without judder.

Read These Notes Before Using the 3D Function...

- The 3D Mode is set to Off automatically when you access Smart Hub or e-Manual functions.
- Some Picture functions are disabled

in 3D mode.

- PIP is not supported in 3D mode.
- 3D Active Glasses from Samsung's previous IR type 3D products and 3D glass from other manufacturers are not supported.
- When the TV is initially powered on, it may take some time until the 3D display is optimized.
- The 3D Active Glasses may not work properly if there is any other 3D

product or electronic devices turned on near the glasses or TV. If there is a problem, keep other electronic device as far away as possible from the 3D Active Glasses.

- Be sure to stay within the viewing angle and optimum TV viewing distance when watching 3D pictures. Otherwise, you may not be able to see 3D effects properly.

- The ideal 3D viewing distance is

three times or more the height of the screen. For example, if your screen is two feet high, you should sit at least six feet from the screen. We recommend sitting so that your eyes are level with the screen.

Smart Hub

Menu → Support → Smart Hub

(May not be available,depending on your country.)

Using this function, you can stream movies, videos, and music from the Internet, access various for pay or free-of-charge applications and view them on your TV.

Application content includes news, sports, weather forecasts, stock market

quotes, maps, photos, and games.

✎ You can also start this function by pressing the button on the remote control.

Notice

- Samsung Electronics takes no legal responsibility for any interruption of the Smart Hub service caused by the service provider for any reason.
- Application services may be provided

in English only and the contents available may vary, depending on your area.

- For more information about a Smart Hub service, visit the web site of the applicable service provider.
- The Smart Hub service downloads and processes data via the Internet so that you can enjoy the Internet contents on your TV screen. If the Internet connection is unstable,

the service may be delayed or interrupted. Furthermore, the player may turn off automatically in response to conditions on the Internet. If this occurs, check the Internet connection and try again.

- The services provided are subject to change by the Smart Hub service provider without notice.
- The Smart Hub service contents may differ depending on the player's

firmware version.

- For pay DivX contents with copy protection can only be played through a composite, a component or an HDMI cable.
- If the TV displays these icons at the bottom left of the screen, you can use corresponding functions:

  : Voice Control (System → Voice and Motion Control → Voice Control)

  : Motion Control (System → Voice

and Motion Control → Motion Control)

: An USB or Bluetooth Mouse (the device must connected to the TV). (System → Device Manager → Mouse Settings)

To start Smart Hub for the first time, follow these steps:

1. Press the ⬢ button.
2. The Smart Hub screen appears. In

a few cases, the Country screen appears immediately after.

3. If the Country screen has appeared, select your country using your remote.

   Some applications are available only in certain countries.

4. The General Disclaimer screen appears. Select Agree.

   Screens can take a few seconds to appear.

5. The Privacy policy screen appears. Select Agree.

6. The Service Update screen appears and installs a number of services and applications. When done, it closes. The applications and services downloaded are displayed on the Smart Hub screen. This may take some time.

   Smart Hub may close momentarily during the installation process.

A number of screens may appear after installation. You can close them or let them close on their own.

7. To start an application, select an application using your remote.

Using the Numeric Keypad

Selecting — using your remote while you are using the Screen Keypad enables you to change the text fields

to lower case, capitalized case, upper case, numbers and icons. You can use this Screen Keypad in a several Smart Hub applications.

Method 1: Using the keypad of ABC type.

1. For example, suppose that you want to input “105Chang”.
2. Select — 3 times using your remote to change the input mode from lower

case to numbers.

3. Select 1, 0 and 5 in numerical order.
4. Select — 3 times using your remote to change the input mode from numbers to upper case.
5. Select 2 3 times using your remote to input C.
6. Select — 3 times using your remote to change the input mode from upper case to lower case.
7. Input the rest of “Chang” using your

remote in the same way. When done, select OK.

Method 2: Using the Keypad of XT9 type.

1. For example, suppose that you want to input “105Chang”
2. Select — 3 times using your remote to change the input mode from lower case to numbers.
3. Select 1, 0 and 5 in numerical order.

4. Select — 3 times using your remote to change the input mode from numbers to capitalized case.

5. Select in sequence: 2, 4, 2, 6, 4. A window will appear displaying a list of words that can be entered using the selected numbers. Select “Chang” from the list by selecting D using your remote.

If “Chang” cannot be found in the list, select + to create your own

dictionary. Add your own word to your dictionary.

Using the QWERTY Keypad

You can use this Screen Keypad in a several Smart Hub applications in same way as a keyboard.

Using the coloured and function buttons with the QWERTY Keypad

- A Delete All

Delete all inputted character.

- B Numeric / QWERTY

  Toggles the keypad mode between Numeric mode and QWERTY mode.

  When the keypad is set to QWERTY mode, you can input a character using a USB or Bluetooth keyboard connected on the TV.

- Settings

  Displays the options menu.

Input Language: Select a input language.

XT9 text input: Turns on or off the recommended word function.

- ⏎ Enter

  Enter the selected character.

- ↩ Return

  Return to the previous menu.

- ⏪ Prev Page

  Move to the previous keypad.

  ✎ Available only when the keypad

screen is icon mode.

- ⏭ Next Page

  Move to the next keypad.

  ✎ Available only when the keypad screen is icon mode.

Creating an Account

To establish your own, exclusive, configuration of Smart Hub, create your own Samsung Account.

✎ You must use an e-mail address as

an ID.

- You can register up to 10 User Accounts.
- You do not need an account to use the Smart Hub.

To create an account, follow these steps:

1. On the Smart Hub screen, select A using your remote. The Login screen appears.

When using the Smart Touch Control, press the Return button to close the button screen and use the button.

2. Select Create Account using your remote. The Create Account screen appears.

3. Select Samsung account. An entry screen and keypad appear.

4. Use the keypad to enter your e-mail address. This will serve as your ID.

5. When done, select OK. The Login screen reappears.
6. Select Password. The Password screen and a keypad appear.
7. Use the keypad to enter a password. The password can be any combination of letters, numbers, and symbols.

   If you select A using your remote, the TV show or hide the password as you enter it.

8. When done, select OK.
9. Select Confirm Password. The Password screen and a keypad re-appear.
10. Repeat Steps 7 and 8.
11. When done, select Create Account. The Confirmation window appears.
12. Select OK. The Continue to register service ID window appears.
13. Select OK.

If you don't have existing provider

accounts or do not want to register existing accounts at this time, select Cancel. You can also let the window close on its own in about a minute.

14. The Link to other accounts window appears.

    If you have existing accounts with any of the listed providers, you can associate the provider account and the provider account password with your Samsung

account account. Registration makes it easier to access the provider's web site. For registration instructions, go to Step 2 in Account Manager under Settings in the "Configuring the Smart Hub with Settings" section of this manual.

- A Login / Logout

To log in to your Samsung account, follow these steps:

1. With the Smart Hub main screen displayed on your TV, select A using your remote. The Login screen appears.
2. Select the ▼ next to the Samsung account.

- If you want to input the Samsung account. The screen keypad will appear. Then you can input your Samsung account manually.

- When you select Face Recognition Mode, you can log in to the Samsung Account using the Face Recognition function without input your account. For more detailed information about the Face Recognition, refer to "Recognition"

section in the e-Manual.

3. Select your ID from the list that appears. The Login screen re-appears.
4. Select Password. The Password window and a keypad appear.
5. Enter your password using your remote. When done, select OK.

If you want Smart Hub to enter your password automatically, select Remember my password, after

you have entered your password. A ✓ mark appears. The Smart Hub will now enter your password automatically when you select or enter your ID.

- If you want to log in the Smart Hub automatically when the Smart Hub function starts, select Sign me in automatically. A ✓ mark appears.
- When you forgot password, you can reset your Samsung account

password. Select B using your remote. A pop-up message appears, and then select OK. The guide to resetting your password will be sent to your e-mail.

- B Wallpaper

  You can change a background image the Smart Hub home screen.

- C Account Manager

  Lets you register your service provider accounts, delete or deactivate your

Samsung Account, and register or reset your face recognition. For more information about Account Manager, refer to "Configuring the Smart Hub with Settings" in this section.

Available only when you logged in the Smart Hub.

Using the Tools menu with Smart Hub

- Login / Logout

  Log in or log out to your Samsung

Account.

- Wallpaper

  You can change a background image the Smart Hub home screen.

- Move

  The Move function lets you change the screen position of an application or a folder.

  To use the Move function, follow these steps:

1. Select an application or a folder, and then open the Tools menu using your remote.
2. Select the Move. A position change screen appears.
3. Move the icon using your remote. When the icon is in the position of your choice, select the icon. The application moves to its new location.

- Move to Folder

The Move to Folder function lets you move an application to a folder.

To use the Move to Folder function, follow these steps:

1. Select an application, and then open the Tools menu using your remote.
2. Select the Move to Folder. The Move to Folder window opens.
3. Select a folder using your remote.

   A move finished message appears,

and then closes. The application has been moved to the folder.

Also, if you select an application in a folder, the application can be moved to the Smart Hub screen.

To access an application in a Folder

1. On the Smart Hub screen, select a folder. The folder opens.
2. Select an application you want to execute. The application service

starts.

- Delete

  The Delete function lets you delete application from the Smart Hub.

  To use the Delete function, follow these steps:

  1. Select an application, and then open the Tools menu using your remote.
  2. Select the Delete. The message Do you want to delete the selected

item(s)? appears.

3. Select OK. The application is deleted.

- New Folder

  The New Folder function lets you create and name new folders. Once you have created a folder, you can move applications into it.

  To use the New Folder function, follow these steps:

  1. Open the Tools menu using your

remote.

2. Select the New Folder. The New Folder window and a keypad screen appear.
3. Enter the name of the folder using your remote.
4. When done, select OK. The New Folder screen closes and the New Folder appears on the Smart Hub screen.

- Rename Folder

The Rename Folder function lets you rename folders.

To use the Rename Folder function, follow these steps:

1. Select a folder, and then open the Tools menu using your remote.
2. Select the Rename Folder. The Rename Folder window and a keyboard screen appear.
3. Enter a new name using your remote.

4. When done, select OK. The Rename Folder window closes and the new name appears below the folder.

- Lock

  The Lock function lets you lock some application in Smart Hub so they cannot be opened without entering the password.

  Depending on the application, this function may not be supported.

To use the Lock function, follow these steps:

1. Select an application, and then open the Tools menu using your remote.
2. Select Lock. The Security window appears.
3. Enter your password.
4. A confirming message screen appears. A lock symbol appears left to the application.

- Unlock

Depending on the application, this function may not be supported.

To use the Unlock function, follow these steps:

1. Select an application, and then open the Tools menu using your remote.
2. Select Unlock. The Security window appears.
3. Enter your password.
4. A confirming message screen

appears. A lock symbol disappears.

- Information

  You can view the detailed information about the selected application.

  ✎ Depending on the application, you can also lock or unlock the application in the Detailed Information screen.

Configuring the Smart Hub with Settings

The Settings menu gives you access

to Account Manager, Service Manager, Reset and About Smart Hub functions.

To access the Settings menu, and then select a menu item, follow these steps:

1. Open the Tools menu using your remote.
2. Select Settings. The Settings window appears.
3. Select a menu item using your remote.

- Account Manager

  The Account Manager menu contains functions that let you register your service provider accounts, and delete or deactivate your Samsung Account.

  Link to other accounts: If you have existing accounts with any of the providers listed by the Link to other accounts function, you can associate the provider account and the provider account password with your Samsung

Account. If you associate the account, you will be able to log onto the account through Smart Hub easily, without entering your account name or password.

Before register your site account, corresponding application should be installed in the Smart Hub.

To use the Link to other accounts function, follow these steps:

1. In the Account Manager menu, select the Link to other accounts. The Link to other accounts window appears.
2. Select an application you want to associate with your Samsung Account.
3. Enter your site ID and password using your remote. When done, select OK.

   ✎ This is the ID and password you normally use to access your

account on this application.

4. If you have entered the ID and password correctly, the Registered successfully. message appears.
5. If want to add another service application, and then repeat Steps 2 through 4 to associate another service application.
6. When done, select OK.

Remove from TV account list: Cancels

all your current registered Service Accounts that you registered on the Link to other accounts screen.

Deactivate account: Deactivates your Samsung account and deletes it and all your account settings entirely from the Smart Hub.

Face Recognition: Register your face in your Samsung account. For more information about Face registration, refer to "Face Recognition" in the

SMART Interaction section.

Transfer recognised face: Delete registered your face in your Samsung Account.

- Service Manager

  Auto Ticker: You can set Auto Ticker to come on when powering on the TV.

  The Ticker application provides useful News, Weather, and Stock Market information. The Ticker

application on Smart Hub must be downloaded to use this feature.

Depending on your country, the Ticker application may have a different service or not be supported.

Push Notification Settings: When on, Push Notification that displays a notification message when an event takes place in an application installed on Smart Hub. The TV will display the notification message and allow you to

view details of the event even while you are viewing TV.

- Reset

  The Reset function initializes all downloaded applications, erases all user accounts and settings from the TV, and resets all Smart Hub settings to the factory default settings. It then restarts Smart Hub as if it were starting for the first time.

  Your account, however, remains on

the Smart Hub server. To log into your account, enter your ID and password on the Login screen.

To use the Reset function, follow these steps:

1. In the Settings menu, select Reset. The Reset screen appears.
2. Enter the security password using your remote.
3. After a few moments, the Smart Hub

automatically resets. The screen may go black, and then Smart Hub re-appears. In a few moments, it starts the re-initialization procedure.

4. To complete the re-initialization, go to Step 2 in "To start Smart Hub for the first time, follow these steps:" section of this manual.

- About Smart Hub

  The About Smart Hub menu contains functions that display information

about Smart Hub.

More: Lists information about Smart Hub version, Memory Usage, and the Unique ID.

Terms of Service Agreement: Display the Terms of Service Agreement.

Samsung Apps

→ Samsung Apps

Samsung Apps is a store from which you can download applications to use on Samsung TV/AV equipment.

You can enjoy a variety of contents such as videos, music, photos, games, useful information etc. using the downloaded applications.

New applications are added regularly.

Using the coloured and function buttons with the Samsung Apps

- A Login / Logout

  Log in or log out to your Samsung Account.

- B Filter by Price

  To toggle the view between All, Paid and Free.

- C Sort

To sort the applications by Recommended, Name, Date or Downloaded.

You can sort all categories except Most Popular.

- D View Mode

  Each time you select D using your remote, the View Mode toggles between basic mode and thumbnail mode.

- ◄◄ Previous

Move to previous page.

- ⏭ Next

  Move to next page.

- Tools

  Displays the option menu.

- ↩ Return

  Moves to previous menu.

Using the Samsung Apps by category

The following categories are available:

- What's New?

User can easily find newly (latest) registered application.

- Most Popular

  Displays the most popular applications for users.

- Video

  Includes apps that provide video media such as movies, TV shows and short length videos.

- Game

  Includes various game apps such as

sudoku and chess.

- Sports

  Includes apps that provide sports content such as game results, images and short length video.

- Lifestyle

  Includes apps that provide lifestyle media services such as music, personal photo management tools, and social networking such as Facebook and Twitter.

- Information

  Includes apps that provide information content such as news, financial information, stock quotes, weather, etc.

- Education

  Includes apps that provide education contents such as story book, dictionary, VOD (Video on Demand) for kids etc.

- Downloaded apps

  Downloaded apps offers information about your available App cash coupon,

purchased app list or already installed applications on your TV like detailed information, download contents etc.

You can purchase App cash that you can use to buy applications through tv.samsungapps.com.

- Help

  If you have questions about the Samsung Apps, check this section first.

To search an application in Samsung Apps,

follow these steps:

1. On the Samsung Apps screen, select Search Samsung Apps. The Search window appears.
2. Enter a keyword you want to search using your remote.
3. When done, select an entry field.
4. Wait until the search result screen displays. Then you can select an application you want in the search result screen.

You can find the keyword in the search history if you searched a keyword before.

Search

→ Search

(May not be available, depending on your country.)

Easily search for and access content from diverse sources (e.g. applications, Your Video, AllShare Play)

1. On the Smart Hub, select Search.
2. If you want to input a search term directly, select an entry field. A keypad screen appears. Enter the

search term using your remote.

If you want to search by category, select a category using your remote.

Using the Search function by category

- Your Video

  Personalize your movie-watching with a customized video on demand (VOD) recommendation service.

- Most searched

You can search by selecting a key word in the key word list. The key word list displays words you frequently use for searches.

- Top application

  You can search applications and services in the application list. The application list displays apps that users download frequently.

- Search history

  You can find the keyword in the search

history if you searched a keyword before.

- B Refresh

  Refresh the Search function.

- Tools

  You can set a general setting for Search function or delete the search history.

- Return

  Return to the previous menu.

Using the Tools menu with Search

- General Settings

  Keyword recommendation: Turns on or off the Keyword Recommendation function.

  Search area: Sets a search scope. The default is allowed all application.

To customize a search area you want, follow these steps:

1. On the Search screen, open the Tools menu using your remote.

2. Select General Settings.
3. Select an application in the Search area. A ✓ mark disappears in the check box.
4. When done, select RETURN↩.

- Search history

  You can delete the keyword in the search history. Also, if you select Delete All, delete all your search history.

Your Video

→ Your Video

(May not be available, depending on your regions and country.)

Using this service from Smart Hub, you can get video recommendation, search for movies from multiple providers, and stream or purchase movies. To stream or purchase movies, you must have the vendors app installed in Smart Hub. Depending on the vendor, you may also

need a vendor account.

Using the Your Video Search Tab

1. On the Smart Hub screen, select Your Video.
2. If this is the first time you have accessed Your Video, the Privacy Notice appears. Read the notice, and then select Agree.
3. When the Your Video screen appears, it displays a list of recommended

movies with Recommended at the top of the screen highlighted. Move the highlight from the top of the screen down to the first movie, and then scroll the movies to the right to view all the movies in the list.

4. To see additional lists of movies, move the highlight back to the top of the screen. You can select - in addition to Recommended - New releases, Top 20 films, Top 20 TV

shows, and From friends.

5. To select a movie, highlight it, and then press the ↵ button. The movie's Data screen appears. On this screen you can view Basic Information, Director/Cast, Photos, Awards, and Related Movies.

6. To watch the movie, select Watch. A list of online vendors that have the movie available for rent or purchase appears. Renting usually means you

can stream the movie for a certain number of hours or days.

To go to a vendor's web site, you must have that vendor's app installed in Smart Hub. To install apps, access Samsung Apps on the main Smart Hub screen.

7. You can search for a particular movie. To search, select C with your remote control. The Search Entry screen and a keyboard appear.

8. Enter the name of the movie into the Search field. As you enter characters, the Search function will display suggestions below. You can either continue entering characters, or, if your movie appears, move the highlight down and select it. The movie's Data screen appears (See Steps 5 and 6).

If you are entering using a keyboard, you can either press

Enter or you can move the highlight down using the down arrow key.

Using the Function and Coloured Buttons on the Search Tab

- A Login / Logout

To login to your Smart Hub account or log out.

- C Search

To search for movies or videos (Steps 7

and 8).

- My Page

Displays your My Video Bookmarks, Likes/Shares (if you have a Facebook or Twitter account registered in Smart Hub), and lets you establish certain Preferences.

- Return

Return to the previous menu.

Using Function and Coloured Buttons

on a Movie's Data Page

- A Login / Logout
- To log in to your Smart Hub account or log out.
- B Bookmark / Unbookmark

  To bookmark a movie or video or to remove the bookmark. When you bookmark, Bookmark appears on the left side of the screen. Bookmarked movies or videos are listed on My Page.

- C Search

  To search for movies or videos (Steps 7 and 8).

- D Home

  To go to the My Video Home screen.

- My Page

  Displays your My Video Bookmarks, Likes/Shares (if you have a Facebook or Twitter account registered in Smart Hub), and lets you establish certain Preferences.

- ↩ Return

  Return to the previous page or menu.

Using the Your Video Genre Tab

When you start Your Video, the Your Video screen displays the Search tab. You can also display the Genres tab which sorts movies and videos by genre.

1. On the Your Video Search tab, move the highlight to the bottom of the

screen, and then select Genres. The Genres tab appears.

2. On the Genres tab, select either Movies or TV show on the left side of the screen.

3. On the right side of the screen, select the genre (Action/adventure, Animated, etc.). Your Video displays the Genre Movie or TV Show List screen with the movies or TV shows in the genre you selected.

4. Highlight a movie or TV show and then select it. The Data screen for that movie or TV show appears.

Using the Function and Coloured Buttons on a Genre Movie or TV Show List Screen

- A Login / Logout

  To log in to your Smart Hub account or log out.

- B Genres

To re-display the Genres tab.

- C Search

  To search for movies or videos.

- D Sort

  To sort movies or videos by Ratings, Year, or Title.

- My Page

  Displays your My Video Bookmarks, Likes/Shares (if you have a Facebook or Twitter account registered in Smart Hub), and lets you establish

certain Preferences.

- ↩ Return

  Return to the previous page or menu.

Using My Page

My Page displays your My Video Bookmarks, Likes/Shares (if you have a Facebook or Twitter account registered in Smart Hub), and lets you establish certain Preferences. When the My Page icon is displayed at

the bottom of a screen, select or press ⮌. My Page appears displaying your bookmarked movies and videos. Select a bookmarked movie or video, access your Likes/Shares, or view or change your Preferences.

Using the Function and Coloured Buttons on the My Video Screen

- A Login / Logout

  To log in to your Smart Hub account

or log out.

- C Search

  To search for movies or videos.

- D Home

  To go to the My Video Home screen.

- ↩ Return

  Return to the previous page or menu.

Family Story

(May not be available, depending on your regions and country.)

→ Family Story

Family Story feature allows you to share photos, messages, and events with your family.

- Create Group

  If you are starting Family Story for the first time, you can create a family group and invite members to join.

- Invite Members

  After creating a group, you can invite the family members who you want to share your family's photos and events with to join.

- Join Group

  If you were invited to join a family group by a family member, you can select Join Group to enjoy Family Story services.

  ✎ You must be logged into your Smart

Hub account to create a family group, access your group, or use Family Story.

To create a family group, follow these steps:

1. On the Smart Hub screen, select Family Story. The Family Story screen appears.
2. Select Create Group. The Create and invite pop-up appears.

3. Select OK. The Family Story agreement appears. Read the agreement, and then select Agree.

   ✎ It is required to agree with the terms prior to using Family Story.

4. Enter a Group Name, Your Name, and Your Phone Number without dashes using your remote control.

   ✎ If you want to add a group image, select an image box. (An external device containing photos must be

connected to your TV via USB.)

✎ * Fields marked with an asterisk are required.

5. When done, select Done. The group creation is completed.

✎ If you want to invite members to your group, select Invite Members. If you want to go your Family Story, select Go to Family Story. If you selected Invite Members, go to Step 4 in the procedure below.

To invite members to your Family Story group, follow these steps:

1. From the starting menu in Family Story, open the Tools menu using your remote control, and then select Group Members. The Group Members screen appears.
2. Select Invite Members. The Invite pop-up appears.
3. Select OK. The Invite Members

screen appears.

4. Select Select to enter message.. The keypad screen appears.
5. Enter message using your remote control. When finished, select OK on the bottom of the keyboard, and then select Done.
6. Select Phone number or Samsung account ID. The keypad screen re-appears.
7. Enter the prospective member's

phone number or Samsung account ID using your remote control. When finished, select OK on the bottom of the keyboard, and then, select Done.

If you want to add more prospective members, select Add Member, and repeat Steps 4 through 7.

8. When finished adding members, select Done. The Member Invitation Completed screen appears.

9. If invited by phone number, 4-digit invite code will be generated and the code needs to be shared with the member. If invited by Samsung Account, the member will be notified about the invitation via e-mail. Select OK to finish.

To join a group using the received invite code, follow these steps:

1. Start Family Story and accept the

terms.

2. You will see a pop-up message asking about invitation type. If you were invited by phone number, please select Invite Code. If you were invited by Samsung account, please select Samsung Account.

3. If joining by Samsung Account, a list of invitations from your family groups will be displayed. Select Accept to join. You can select Deny

if you don't want to join the inviting group.

4. If joining by Invite Code, first enter your phone number using your remote control. When done, select Done. Then you will see a list of invitations from your family groups. Select Accept to join. You can select Deny if you don't want to join the inviting group. Enter the 4-digit invite code shared by your family member,

and then select Done to finish.

5. Select OK. Joining your family group has been completed.

Creating an Album

You can upload pictures from a USB device and create a picture album which other group members can view and add to.

To create a picture album, follow these

steps:

1. Attach a USB device containing the pictures you want to upload to the picture album to your TV.
2. Log into your Smart Hub account, and then start Family Story.
3. Highlight and select the "create album" icon on the left side of the Family Story screen or select B Create using your remote control. The Create screen appears.

4. Highlight and select Add on the AIbum tab. The File Browser screen appears.
5. Highlight and select the USB device. The device opens, displaying either folders or picture files.
6. If picture files are displayed, highlight and select each file you want to upload. A check appears on each file.
7. If folders are displayed, highlight and

select the folder that contains the pictures you want to upload. Then, select each file you want to upload. A check appears on each file.

You can highlight and select the Select All button on the right side if you want to select all displayed pictures.

8. When finished, highlight and select the OK button on the right side. The Create screen re-appears displaying

some or all the photos you want to upload.

- To delete a photo from the upload queue, select Tools. In the Tools menu, select Delete Photos. Either highlight and select individual photos or select Delete All. When done, select the Delete button on the bottom of the page. A pop-up appears asking whether you want to delete the photos.

Select Yes.

9. Highlight and select the Done button on the bottom of the screen. The photos are uploaded, and then the Story of the Day screen appears, displaying the photos.

10. Select ↩ Return. The Cover Story (Main Family Story) screen appears displaying the photos.

    ✎ The Cover Story screen runs a continuous slide show of photos

you uploaded. It also displays some of the photos on a "shelf" below the slide show area.

Deleting a Picture

To delete a picture, follow these steps:

1. On the Cover Story screen, highlight and select the strip of photos on the bottom left. The Story of the Day screen appears.

2. Highlight and select the photo you want to delete.
3. Select Tools.
4. In the Tools menu, select Delete. A message appears asking if you want to delete the photo.
5. Select OK. The picture is deleted.

Editing a Picture

The Edit function lets you add a memo to a picture or add the picture to an

event.

To edit a picture, follow these steps:

1. On the Cover Story screen, highlight and select the strip of photos on the bottom left. The Story of the Day screen appears.
2. Highlight and select the photo you want to edit.
3. Select Tools.
4. In the Tools menu, select Edit. The

Edit screen appears.

5. To add a memo, highlight and select the "enter Memo" field. The Enter Memo screen and keyboard appear.

6. To add the picture to an event, highlight and select Find event. The Events list screen appears. Use the left and right arrow buttons to change the month. Use the up and down arrow buttons to select an event. Press Enter when done.

7. After you have added a memo or added the photo to an event, highlight and select Done on the bottom of the screen.

Creating a Memo

You can create a memo that all group members can see.

To create a memo, follow these steps:

1. Log into your Smart Hub account,

and then start Family Story.

2. Highlight and select the "create memo" display on the right side of the Family Story screen or select B Create using your remote control. The Create screen appears.

3. On the Memo tab, highlight and select the "enter Memo" area. The Enter memo screen and keyboard appear.

4. Use your remote control to highlight

and select letters. If you have a USB or Bluetooth keyboard attached to the TV, use the Keyboard to type in letters.

5. When done, select OK on the on screen keyboard, press the ↵ button. If you are using a physical keyboard, press the Enter key on the key board. The Create screen re-appears displaying the memo.

✎ To edit the memo, highlight and

select the "enter Memo' area again. The Enter memo screen and key board re-appear.

6. Highlight and select the Done button on the bottom of the screen. The Story of the Day screen appears displaying the memo.
7. Select ↩ Return to go back to the main Family Story screen.

Deleting a Memo

To delete a memo, follow these steps:

1. On the Cover Story screen, highlight and select the memos on the right side of the screen. The Story of the Day screen appears.
2. Highlight and select the memo you want to delete.
3. Select Tools.
4. In the Tools menu, select Delete. A message appears asking if you want

to delete the memo.

5. Select OK. The memo is deleted.

Editing a Memo

To edit a memo, follow these steps:

1. On the Cover Story screen, highlight and select the memos on the right side of the screen. The Story of the Day screen appears.
2. Highlight and select the memo you

want to edit.

3. Select Tools.

4. In the Tools menu, select Edit. The Edit screen appears.

5. Highlight and select the Edit field. The Memo screen and keyboard appears. Edit the memo, and then press Enter when done.

6. The Edit screen re-appears. Highlight and select Done on the bottom of the screen.

Creating an Event

You can create a record of an event, such as a birthday party or a wedding, with pictures, that all group members can see. You can also create a record for a future event.

To create an event, follow these steps:

1. Attach a USB device containing the pictures of the event that you want

to upload to your Family Story.

2. Log into your Smart Hub account, and then start Family Story.

3. Highlight and select the "create event" display on the right side of the Family Story screen or select B Create using your remote control. The Create screen appears.

4. On the Event tab, highlight and select the Event title field. The Event Title screen and keyboard appear.

5. Use your remote control to highlight and select letters. If you have a USB or Bluetooth keyboard attached to the TV, use the keyboard to type in letters.

6. When done, select OK on the on screen keyboard, press the ↵ button. If you are using a physical keyboard, press ↵ on the keyboard.

7. Highlight and select Done on the Event Title screen with your remote

control. The Event Tab reappears.

8. User your remote control to highlight and select the "Enter Description" field. The Enter Description screen and keyboard appear.

9. Enter a description of the event the same way you entered the Event Title in Step 5. When done, close the Enter Description screen the same way you closed the Event Title screen in Steps 6 and 7.

10. Highlight and select the From field. The Time Settings screen appears. Use the up and down arrow buttons on your remote control to change the values in each field. Use the left and right arrow buttons to move from field to field. Press Enter when done.

11. Highlight and select the to field. The Time Setting screen appears. Set the To time the same way you set the From time in Step 10.

12. To define the Event Type, highlight and select the Change button. The Event Type list appears.

13. Use the up and down arrow buttons on your remote control to select an event type. When done, press the ↵ button. The Event Tab re-appears.

14. To add photos, highlight and select the Add button. The File Browser appears.

15. Highlight and select the USB device.

The device opens, displaying either folders or picture files.

16. If picture files are displayed, highlight and select each file you want to upload. A check appears on each file.

17. If folders are displayed, highlight and select the folder that contains the pictures you want to upload. Then, select each file you want to upload. A check appears on each file.

- You can highlight and select the Select All button on the right side if you want to select all displayed pictures.

18. When finished, highlight and select the OK button on the right side. The Event Tab re-appears displaying some or all the photos you want to upload.

    - To delete a photo from the upload queue, select Tools.

In the Tools menu, select Delete Photos. Either highlight and select individual photos or select Delete All. When done, select the Delete button on the bottom of the page. A pop-up appears asking whether you want to delete the photos. Select Yes.

19. When done entering all information and selecting all photos, highlight and select the Done button at the

bottom of the Event Tab. Family Story uploads the photos you selected and then displays the Story of the Day screen.

20. Select ↩ Return to go back to the main Family Story screen.

Deleting an Event

To delete an event, follow these steps:

1. On the Cover Story screen, highlight

and select the events on the bottom right side of the screen. The Story of the Day screen appears.

2. Highlight and select the event you want to delete.
3. Select Tools.
4. In the Tools menu, select Delete. A message appears asking if you want to delete the event.
5. Select OK. The event is deleted.

Editing an Event

To edit an event, follow these steps:

1. On the Cover Story screen, highlight and select the events on the bottom right side of the screen. The Story of the Day screen appears.
2. Highlight and select the event you want to edit.
3. Select Tools.
4. In the Tools menu, select Edit. The

Edit screen appears.

5. Edit the elements in the event in the same fashion you first entered them.
6. To remove a photo, highlight the photo, and then Select Tools.
7. In the Tools menu, select Disconnect photos.
8. Highlight and select individual photos or highlight and select Select All.
9. Highlight and select Delete. A message appears asking if you want

to delete the photos. Select Yes.

10. When finished editing, highlight and select Done at the bottom of the page.

Functions on the Cover Story (Main) Screen

On the Cover Story screen, you can launch a slide show, display individual pictures, view memos, and view events.

Launching a Slide Show

1. On the Cover Story screen, highlight

and select the large Slide Show area. This is the portion of the screen that displays constantly changing pictures. The slide show starts. The slide show controls are displayed momentarily, then disappear.

2. To stop or start the slide show and to re-display the controls, press Enter on your remote control.

3. To view individual pictures, stop the slide show, and then press the left or

right arrow button on your remote control.

4. To change the speed of the slide show, select the ◀ or ▶ button.
5. To end the slide show, select ↩ Return.

Viewing Individual Pictures

1. On the Cover Story screen, highlight and select the strip of photos on the bottom right. The Story of the

Day screen appears displaying the individual photos.

2. Highlight and select a photo. The individual photo is displayed.

- To add a comment about the photo, highlight and select the Add Comment button or select B Add Comment. The Comment screen and keyboard appear.
- To watch a slide show that includes the picture, highlight and select the

picture. The slide show begins.

- To watch a slide show together with another member of your group, select C Watch together now. This function lets you and another member of your group watch the same slide show on your own TVs, even if you are thousands of miles apart.

Viewing Individual Memos

1. On the Cover Story screen, highlight

and select the memos displayed on the right side. The Story of the Day screen appears displaying the individual memos.

2. Highlight and select a memo. The individual memo is displayed.

- To add a comment about the memo, highlight and select the Add Comment button or select B Add Comment. The Comment screen and keyboard appear.

Viewing Individual Events

1. On the Cover Story screen, highlight and select the events displayed on the right side. The Story of the Day screen appears displaying the individual events.
2. Highlight and select an event. The individual event is displayed.

- To add a comment about the event, highlight and select the Add

Comment button or select B Add Comment. The Comment screen and keyboard appear.

- To watch a slide show of the pictures saved in the event, highlight and select the pictures at the bottom left of the screen. The slide show begins.

The Tools Menu Functions

The Tools Menu appears on most of the Family Story screens. This section

provides a run down of all the Tools Menu functions by screen.

Tools Menu Functions on the Cover Story Screen

Group Members: Lists the current group members and the current prospective members with invitations.

My groups: Lists the groups you are a member of. Also lets you access your groups.

Settings: Lets you edit your profile information and set whether your group will allow new content, new members, new invitations, and issue event reminders.

Logout: Logs you out of Family Story and your Smart Hub account. Returns you to the Smart Hub screen.

Create: Takes you to the Create screen where you can create a photo album, memo, or event record.

Updates: Lets you know if there is an update for the Family Story application, and lets you download and install it.

Tools Menu Functions on the Story of the Day Screen

Filter: Lets you select what to view on the Story of the Day screen by category: All, Album, Memo, Event.

View by Member: Lets you view entries (Albums, Memos, Events) by member.

The rest of the functions - Group Members, My groups, Settings, Logout, and Updates - are the same functions as the Cover Story screen functions.

Other Functions on the Story of the Day Screen

The Story of the Day screen also has a date filter function on the bottom of the screen.

Date created / Date Uploaded: You

can sort the items on the Story of the Day screen by Date created or Date Uploaded by highlighting and then selecting the Date created / Date Uploaded slider button.

You can also quickly move to the month certain items occurred or were uploaded by selecting a highlighted number on the monthly number bar. You can also select a year, and then a month. When you select a month, Family

Story displays the items that were uploaded or occurred in that month.

Fitness

(May not be available, depending on your regions and country.)

→ Fitness

The Fitness application provided by Smart Hub lets you track and manage a fitness and exercise programme you create.

To use Fitness, you should be logged in the Smart Hub.

Read these notes before exercising...

- Please warm-up or stretch before exercising.
- Stop exercising immediately if you feel pain, or dizzy, exhausted, or short of breath.

Create Your Profile

When you start Fitness for the first time, you should create your own profile. On the Fitness screen, select

Create Your Avatar. A pop-up message appears. Select Create Profile. The Personal Trainer/Create Profile screen appears.

1. To go to next step, press the right arrow button. The Name pop-up appears.
2. Select First Name. The Username screen and keyboard appear. Enter your name. When done, Select OK.
3. Select Last Name. The Username

screen and keyboard re- appear. Enter your last name. When done, Select OK.

4. Press the right arrow button on your remote control. The Gender pop-up appears.

5. Highlight and select your gender. When you select our gender, you will see a black dot appear in your selection.

6. Press the right arrow button on your

remote control until the Date pop-up appears.

7. Enter your birth date using your remote control. It will be used to personalize some parameters for you.

8. Press the right arrow button remote control. The Units pop-up appears.

9. Select your preferred units. The selected units will be applied throughout the Fitness app. Move to

the right again. The Height pop-up appears.

10. Enter your height. This will be used to calculate your body mass index (BMI). Move to the right again. The Weight pop-up appears.

11. Enter your weight. This will be used to calculate your body mass index (BMI). Move to the right again. The application calculates your BMI.

12. The creation of your profile is

finished. The TV displays your profile information and BMI. To start the Fitness app, select Enjoy Fitness.

Using Fitness with categories

- Exercise

  Provides information on your exercise goal, current status and recommended contents.

- Progress

  Provide information on your basic body

profile, exercise progress, achievement of your goals, etc.

- Edit

  Edit lets you change or adjust your fitness goals.

Selecting Exercise Programs

Fitness displays a number of exercise videos and programs you can use to help you reach your fitness goals. Each of these videos and programs must

be downloaded from Samsung Apps. Videos labeled VOD (Video on Demand) are part of a group of free exercise videos. We suggest you download those first.

To download a VOD programme or video, follow these steps;

1. On the Fitness screen, highlight and select a program. A message appears asking you if you want to go to

Samsung apps.

2. Select Yes. The Samsung Apps screen appears.

   ✎ This may take a few minutes.

3. If this is the first time you have download a VOD programme or video, you will be directed to download the VOD video app that lets you download and play all the VOD exercise videos.

4. Follow the directions on the screen

to download the VOD video app.

5. After the video app has been downloaded, press RETURN↩ several times to go back to the Fitness screen.

6. You can now select and play any of the VOD videos.

   ✎ As you play these videos, Fitness notes the video you are using and calculates the number of calories you have burned, base on the

video.

Kids

→ Kids

Using this function provided by Smart Hub, lets you provides a quick launcher and the recommended list to access the kids or education-related application or contents easily and quickly. Also, it helps user (parents) to manage your kids.

Using the Kids with categories

- Playground

  Displays recommended contents and applications. When you select an application or content, the TV executes an application or contents immediately.

  - The maximum number of contents list is 40.
  - The contents list can be edited by user (parents). For more detailed information, refer to "My choice" in this section.

- Sticker Book

  Displays the Sticker Books collected stickers which your kids received. Also, it can be share with your Family Story.

Your kids can receive the sticker through these methods:

- **By User (parent)**: Presents a sticker using the Present Stickers function in the Parents menu.
- **Automatically**: Presents a sticker when

watching content.

Creating a Sticker Book

1. If you want to create a new Sticker Book, select Create a New Sticker Book. The Create a New Sticker Book screen appears.
2. Enter the Sticker Book's name using your remote. When done, select Next.
3. Select a colour of the Sticker Book.

When done, select Next.

4. Check the created sticker book. If you want to change a name, select Edit. If you want to change a colour, select Back.

5. When done, select Done. A new Story Book is created.

- You can create a new sticker book. Maximum number of books is 10.
- You can check arrived stickers in the Get New Stickers. A new sticker

will be saved only 10 stickers which recently received.

- Browse all

  Displays the kids or education-related applications list and all contents list.

  ✎ When you select an application or contents, if the application or contents were not installed to the TV, the TV displays the corresponding download screen in the Samsung Apps screen.

To use the Browse all, follow these steps:

1. On the Browse all screen, select a character you wish. The selected character screen appears.
2. Select content you want play.

   Videos: Displays the video contents of the corresponding character.

   Games: Displays the game contents of the corresponding character.

Stories: Displays the e-book contents of the corresponding character.

3. The detailed information screen of the selected contents appears. You can play the contents, share with your Family Story, add to Playground, and give a rating.

   If you were purchased already, you can play the contents. If you are not purchased, you can download the contents in the Samsung Apps.

- Parents

  Lets you can edit the Playground, give stickers to your kids, check a usage time, and set to alarm.

  My choice

  You can add or delete the contents in the Playground. The Playground displays the added contents only.

To add or delete the contents in the Playground, follow these steps:

1. On the Parents screen, select My choice. The My choice screen appears.
2. Select contents you want to add or delete in the list. A pop-up message appears.
3. Select Yes.
4. The selected contents will be added or deleted.

Present Stickers

When your kids did a good job today, you can present a sticker to your kids.

To present a sticker to your kids, follow these steps:

1. On the Parents screen, select Present Stickers. The Present Stickers screen appears.
2. Select a sticker you want to present. A pop-up message appears.
3. Select Yes.

4. Select a sticker book you want to present, and then select Present.

   If you want to check a sticker book, select Check Now. You can check the sticker in the selected sticker book.

5. The selected sticker will be presented to your kids.

History

Lets you check a usage time of the

application of your kids through a graph. Also, you can check a usage time of the each content of your kids.

Set Alarm

Lets you can set the watching time of your kids. When the time is ended, the alarm window appears.

To set the watching time, follow these steps:

1. On the Parents screen, select Set

Alarm. The Set Alarm screen appears.

2. Select Timer.
3. Select time you wish. The alarm will be set.

Web Browser

→ Web Browser

(May not be available, depending on your country.)

Using this function provided by the Smart Hub, you can surf the Internet on your TV.

1. On the Smart Hub screen, select Web Browser. The Web Browser screen appears.
2. Surf the Internet in the same way as

on a PC.

Using the coloured and function buttons with the Web Browser

- B Control Panel

  Shows or hides the control panel in the top of the screen.

- C Link Browsing / Pointer Browsing

  You can change the cursor to Link Browsing mode or Pointer Browsing mode.

- PIP

  Turns PIP on or off. With PIP on, you can watch TV while using the Web Browser.

- Tools

  Displays the Tools menu.

  Control Panel: Shows or hides the control panel in the top of the screen.

  Link Browsing / Pointer Browsing: You can change the cursor to Pointer Browsing or Pointer Browsing.

PIP: Turns PIP on or off.

Add to Bookmark: Add to current page to the Bookmarks.

Enable Grabbing / Disable Grabbing: You can move to the direction you want a current web page. To move a web page, select a web page. Then move to direction you wish using your remote.

Available only when cursor is set to Pointer Mode.

- ◄◄ ►► Scroll up/down

You can scroll the page up or down.

Available only when cursor is set to Link Browsing.

- Return

  Close the Web Browser.

Using the Control Panel with Web Browser

The Web Browser has a series of icons across the top of the screen. With these icons, you can easily use the Web Browser. The icons are described below,

starting with the icon on the far left of the screen.

- Back

  Moves to the previous web page.

  If there is no saved previous web page, this icon will not work.

- Forward

  Moves to the next web page if there are saved URLs.

  If there is no saved next web page, this icon will not work.

- Refresh / Stop

  Refreshes the current page or stops the current connection from loading.

- Home Page

  Goes to the URL you specified as you're the home page.

- Zoom

  You can select a zoom level of 50%, 75%, 100%, 125%, 150%, 200%, 300% and Fit to screen.

- Bookmarks

Displays the Bookmarks screen. You can set the current page as a bookmark or select a favourite page to visit from the bookmark list. You can also sort by Date, Name, or Times Visited. To sort, select the Sort. When you select Enter URL, you can enter in a new URL address directly using your remote. When you highlight a page, the Option appear on the right. In the Option pop-up, you can edit the selected page or

delete the selected page from bookmark list.

Using the Tools menu with Bookmark

- Delete All

  Delete all bookmark lists.

- Add to Bookmark

  Sets the current page as a bookmark.

- Import bookmarks

  You can import a bookmark file saved in the other device like a PC.

- Export bookmarks

  You can export a bookmark file from your TV to the other device connected your TV.

- History

  Displays the History screen. You can select a web page to visit in the History list. You can also sort by Date, Name, or Times Visited. To sort, select the Sort. When you select Enter URL, you can enter in a new URL address directly

using your remote. When you highlight a page, the Option appear on the right. In the Option pop-up you can delete the selected page from the history list or add the selected page to bookmark.

If you want to delete all history lists, open the Tools menu using your remote, and then select Delete All.

- **URL Field**

  Shows the URL of the current page. If you select the URL field, the URL pop-

up appears. Using your remote, you can enter in a new URL directly.

- Windows List

  Displays list or images of open windows (the Windows List). You can open new page to the list (using Open new window), select and access a page in the list, select and close a page in the list, or close all pages.

Using the Tools menu with Windows

List

- Open new window

  Open the new web browser. A new web browser automatically displays the home page.

- Close all windows

  Close the currently opened all Windows List. After closing all Windows List, TV opens a new web browser automatically. A new web browser automatically displays the

home page.

- Search

  Lets you search the web. When you access the Search entry field, the Search screen appears.

  To search the web by word input, follow these steps:

  1. On the Search screen, select the search engine. Also, you can select a different search engine.

2. Select Please enter a keyword.. The keypad screen appears.
3. Enter the word you want to search using your remote. The TV searches the word by search engine.

- Share

  Share the current web page to your Family Story.

- Options

  You can configure the Web Browser settings.

Setting up the Web Browser

Move the cursor to the top of the screen, and then select the Options icon.

- Reading Tools

  Provides an easy-to-read page by enlarging the main text.

- Approved Sites

  Allows to restrict your children's access to inappropriate web pages.

Therefore, this function allows access of only the registered web sites.

Every time you access the Approved Sites, the PIN screen appears and you should enter the PIN.

Approved Sites feature: Turns on or off the Approved Sites.

Reset password for Approved Sites.: Change the Approved Sites password.

Add current site: Lets you add the currently displayed web site to the

Approved Sites list.

Manage Approved Sites: Lets you key in URLs to add to the Approved Sites List and delete sites from the Approved Sites list.

If you turn Approved Sites on and have not added any sites to the Approved Sites list, you will not be able to access any Internet sites.

- Private browsing on / Private browsing off

Enable or disable the Privacy mode. When the Privacy mode is enabled, the browser does not retain the URLs of sites you visit. If you want to enable Privacy mode, select Yes.

If the Privacy mode function is running, the “Stop” icon appears in front of the URL at the top of the screen. To disable Privacy mode, select it again when Privacy mode is enabled.

- PIP Settings

Lets you configure the PIP function.

PIP Position: Select a position for the PIP sub-picture.

Sound: Select the audio source you will hear - Main or Sub - when PIP is on.

- Web Browser Settings

  You can configure Web Browser options.

  Set as homepage: You can set the home page.

  – Most visited: Set the most frequently

visited URL as the home page.

- Current Page: Sets the current page as the home page.
- Bookmarks: Sets the bookmarks URL as the home page.
- Enter URL: Lets you key in the URL of the page you want for your home page. The keyboard works like a cell phone texting keyboard.

Pop-up block settings: Turns the Pop-up Block on or off.

Ad Block Settings: You can determine whether to block advertisements and select the URLs for which advertisements are blocked.

- Ad Blocker: Turns the Ad Blocker on or off.
- Block current page: Adds the current page to the blocked list.
- Manage blocked sites: You can add a website for which advertisements should be blocked by directly keying

in the URL, or you can delete a website from the list.

General: You can delete your personal information.

- Delete history: Deletes the website history.
- Delete browsing data: Deletes Internet access information such as cookies.
- Reset Settings: Reset all web browser settings to the factory

defaults.

– Hide Menu: Turns on or off the control panel auto-hide.

Encoding: You can set the Encoding setting for web pages to Automatic or Manual.

– Auto select: Turns on or off the Encoding setting for web pages automatically.

– Settings: Select the Encoding settings for web pages manually.

Select an encoding format from the encoding format list.

Pointer: You can set the speed of the cursor when the cursor is set to Pointer Mode.

– Pointer Speed: Select a pointer speed.

Browser Information: You can check the version information about the Web Browser.

Skype

→ Skype

Skype created a little piece of software that makes communicating with people around the world easy and fun.

With Skype you can say hello or share a laugh with anyone, anywhere. And if both of you are on Skype, it’s free. Communicate with people around the world!

For more information, download the

Skype user's manual from "www.samsung.com."

[Legal Statement]

Due to the various capabilities of products featuring the Samsung Smart Hub - Content Service, as well as limitations in the available content, certain features, applications, and services may not be available on all devices or in all territories.

Some features on Smart Hub may also require additional peripheral devices or membership fees that are sold separately. Please visit http://www.samsung.com for more information on specific device information and content availability. The services and availability of content through Smart Hub are subject to change from time to time without prior notice.

SMART Interaction

Using this function, you can access the menu options and functions using speak (dictate) the letters and words or motion gesture quickly and easily.

INFORMATION BOOKLET DISCLAIMER

- Face Recognition Log-in

  In order for Face Recognition to function, a thumbnail image of your face will be stored in your TV for

logging-in purposes.

Logging into the Smart Hub using Face Recognition may be less secure than using an ID and password.

- TV Camera Usage

  Before using the TV Camera, you should be aware that under some circumstances and under certain legal conditions your use misuse of the TV Camera can result in legal liability for you. By using the TV Camera,

you agree that you will not use the camera (i) in locations where cameras are generally prohibited (such as bathrooms, locker rooms or changing rooms), (ii) in any manner that will result in an invasion of a person's privacy or (iii) in violation of any applicable laws, regulations or statutes.

Voice Control

Menu → System → Voice and Motion

Control → Voice Control

Enable or disable voice recognition function. Lets you access the menu options and functions using speak (dictate) the letters and words. To use the Voice Control, you should pronounce correctly to selected language in the Language.

- The ambient noise may cause malfunctions of the Voice Control.

There are two ways to speak a word:

– Using the TV’s microphone. (Distant Recognition)

– Using the VOICE button on your remote. (Close Proximity Recognition)

When you use the TV's microphone, it may not be recognized clearly by ambient noise. In this case, try use the VOICE button on your remote. The TV will recognize a voice command more clearly.

- The VOICE button on your remote is always activated. If you want to use TV's microphone, turn on the Voice Control (System → Voice and Motion Control → Voice Control).

- When executes a function through the Voice Control, the corresponding function may not be supported by the Voice Control. In this case, we recommend the Motion Control. If you want to use motion, spread your

hand in the direction of the camera, and shake it three or four times from a side to side.

- Voice Control

  Turns on or off the Voice Control function.

  The VOICE button on your remote is always activated.

- Language

  Select the recognition language you want to use.

- Trigger words

  You can select the Trigger words to execute the Voice Control function.

- Voice command bar size

  Change the Voice command bar size mode between Minimum and Full.

- Voice Sensitivity

  Set the sensitivity of Voice recognition.

  – Howling: Set echo level to Low, Medium or High.

- Recognition responsiveness: Set the responsiveness level of Voice recognition to Low, Medium or High.

- Voice Control Environment Test

  You can test a noise level on the TV microphone.

  - Noise Test: This test checks the noise level of the TV microphone. Select Start using your remote. The test will start. The test should take about a few seconds. Please keep as

quiet as possible during the test.

– Mic & Speaker Test: This test checks the noise level of the TV microphone and speaker. Select Start using your remote. The test will start. The test should take about a few seconds. Please keep as quiet as possible during the test.

  Available only when Speaker Select is set to TV Speaker.

– Voice Control Test: This test checks

the volume level and clarity of your voice when using Voice Control. Select Start using your remote. The test will start. Please say a guide message as loud and clear as you can to complete this test.

If the test is not completed, select Retest, and then say a guide message loudly and clearly again.

To use the Voice Control Function, follow

these steps:

1. Speak Trigger words that you selected using the microphone embedded in the TV or press the VOICE button on your remote. The TV displays the Voice Command Bar.

   If you use the Voice Control, the volume will be set to 5 automatically.

2. Speak a word or phrase you wish from the Voice Command Bar.

- Pronounce the word or phrase clearly and correctly in the language you selected in Language.

3. Wait until recognition is complete and then speak the next command.

- To exit the Voice Control mode, speak Trigger words or "Cancel" using the TV's microphone, or press the VOICE button on your remote again.

Using the Voice Text Input Mode

1. Speak "Search All" while in the Voice Control mode.
2. Say the word or phrase you wish to search for.
3. The TV executes the function you said.

Motion Control

Menu → System → Voice and Motion

Control → Motion Control

Enable or disable Motion Control function. Lets you control your TV to move the TV cursor through the Motion Control function.

Some application may not be supported the Motion Control.

- Motion Control

  Turns on or off the Motion Control function.

- Motion Guide bar

Change the Motion Guide bar mode between Minimum or Full.

- Motion Control Environment Test

  You can test brightness of room, camera angle.

  – Brightness Test: This test checks to see if your room is bright enough for Motion Control to work properly. Select Start using your remote. The test will start. The test should take about a few seconds.

– Camera Angle Test: Start Camera Angle Test. Select Start using your remote. Please put yourself in the rectangle on the screen by adjusting the camera or moving around. If you do not located in the correct position, it may not work properly. When done, please spread your hand in the direction of the camera, and shake it three or four times from a side to side.

To use the Motion Control, follow these steps:

1. If you want to use the Motion Control, spread your hand and wave it in the direction of the camera three or four times. The TV accesses the Motion Control function, and then displays the help bar at the bottom of the screen.
2. Try to control the TV using your

hands.

- Note that the Motion Control function closes if your hands go out of the camera range.
- While using the Motion Control, if you use the other device (i.e. remote control), the Motion Control closes.

Controlling the TV with your hands using the gesture action

-  **Access the Motion Motion Control**

function

- **Action**: Spreads your hand in the direction of the camera, and shake it three or four times from a side to side.

- 🖐️ Pointing Navigation

Moves the cursor to position you want.

- **Action**: Spreads your hand and move it to position you want.

- 👋 Run

Executes an item indicated by the

cursor or highlighted.

– **Action:** Clench your fists.

-  Back

  Return to the previous menu.

  – **Action:** Spreads your hand and rotate it to the counter clockwise.

- **Channel / Volume Control**

  Changes the channel or adjust the volume.

  If you use the Motion Control function while watching channel,

the channel / volume control screen appears.

– **Action**: Use the Pointing Navigation to move the cursor to the channel or volume controller, and then uses the Run to adjust the channel or volume.

  ✎ If you use the Run once, it means to press the button on your remote. If you keep the Run action, it means to press and hold button on your remote.

-  Scroll

  Scroll the page to direction you want. For example, suppose that you want to scroll to down.

  1. Move the cursor to the bottom of the screen (page scroll zone) using the Pointing Navigation action.
  2. Move the cursor to the centre of the screen using the Pointing Navigation action.
  3. The page will move 1 page.

Some application may not be supported this function.

Face Recognition

→ Tools → Settings → Account Manager → Face Recognition

Enable or disable face recognition function. Lets you register your face in your Samsung Account. Also, you can log in to the Samsung Account using the Face Recognition function without

input your account, and use instead of your account password.

- You can register your face in only one account.

To register your face to Samsung Account, follow these steps:

- To use this function, you should log in the Smart Hub. If you don't have a Samsung Account, you should create a Samsung Account. To create your

Samsung Account, refer to “Creating an Account” in Smart Hub.

1. On the Smart Hub screen, press the Tools menu using your remote and then select Settings.
2. Select Account Manager. The Account Manager screen appears.
3. Select Face Recognition. The Face Recognition screen appears.
4. Move your face into a square in the centre of the screen, and wait until a

square is changed a colour from red to green.

- When the TV fails face recognition, select Retry, and then try again.

5. When done, the Face Recognition in your Samsung Account is completed. Continue to register service window appears.

   - If you want to register service later, select OK. You can register service using the Link to other

accounts in the Smart Hub (Tools → Settings → Account Manager → Link to other accounts).

To log in to your Samsung Account using Face Recognition, follow these steps:

If you use Face Recognition to log into the Smart Hub, it may be less secure than logging in with a password.

1. On the Smart Hub screen, select A using your remote. The Samsung

account screen appears.

2. Select Face Recognition Mode. The Face Recognition screen appears.

   ✎ To return to the Samsung account screen, select Password mode.

3. The TV progresses the Face Recognition. Please face to the front of the TV screen. The TV will recognize your face automatically.

   ✎ When the TV fails face recognition, try again.

4. If a registered face is among the recognized face, the TV logs in the corresponding account automatically. If registered faces are two or more, the Samsung Account list appears.
5. Select your account to log in.

   If you select an unregistered face, you can register your face in your Samsung Account. Follow steps 4 through 6 in the “To register your face to Samsung Account, follow

these steps:” procedure.

If there is no account available to register, you can create an account. For more detailed information, refer to “Creating an Account” in Smart Hub.

Specification for SMART Interaction

Voice Control

- Wake On Voice

Environmental and Evaluation Criteria	Condition	Evaluation Item	Management Specifications
Surrounding Noise	~ 40dB	Distance	1M ~ 4M
Operating Environment (RT(60))	~ 0.5 (Indoor)		
Required Voice Level	60 dB or higher	Angle	±30°
TV Volume(dB)	Step 0		
Supported Languages	26 languages	Mis-recognition Test	Within two attempts
Response Time	Within 1 sec		
Recognition Rate	90%	Target	HI TV, Smart TV

- Magic Word

Environmental and Evaluation Criteria	Condition	Evaluation Item	Management Specifications
Surrounding Noise	~ 40dB	Distance	1M ~ 4M
Operating Environment (RT(60))	~ 0.5 (Indoor)		
Required Voice Level	60 dB or higher	Angle	±30°
TV Volume(dB)	Step 10		
Supported Languages	26 languages	Mis-recognition Test	Within two attempts
Response Time	Within 1 sec		
Recognition Rate	90% or higher	Target	HI TV, Smart TV

- Embedded Voice Recognition

Environmental and Evaluation Criteria	Condition	Evaluation Item	Management Specifications
Surrounding Noise	~ 40dB	Distance	1M ~ 4M
Operating Environment (RT(60))	~ 0.5 (Indoor)		
Required Voice Level	60 dB or higher	Angle	±30°
TV Volume(dB)	Step 5		
Supported Languages	26 languages		
Response Time	Within 1 sec		
Recognition Rate	90% or higher	Target	

Motion Control

- Conditions for Recognition

Environmental and Evaluation Criteria	Condition	Evaluation Item	Management Specifications
Operating Speed	Slow / Fast	Distance	1.5M ~ 4M
Environment [Illumination]	50Lux ~ 500Lux	Horizontal Angle	±15°
Background Recognition	White or Grey	Vertical Angle	±10°
Response Time	Within 1 sec		
Recognition Rate	90% or higher	Target	One Hand

Face Recognition

- Conditions for Recognition

Environmental and Evaluation Criteria	Condition	Evaluation Item	Management Specifications
Skin Colour	White, Yellow, Black, Indian, Hispanic	Distance	1.5M ~ 4M
Environment [Illumination]	50Lux ~ 500Lux	Horizontal Angle	±15°"
Background Recognition	White or Grey	Vertical Angle	±10°)
Response Time	2 sec (for 1 person) ~ 8 sec (for 5 persons)		
Recognition Rate	80% or higher	Target	Up To 5 Persons

Smart Touch Control

- Touch

Environmental and Evaluation Criteria	Condition	Evaluation Item	Management Specifications
Response Time	Within 300 msec. (Connected State)	Distance	30cm
	Within 1.5sec. (Disconnected State)		4M
Recognition Rate	100%	Vertical Angle	0° ~ 20°
		Horizontal Angle	0° ~ 85°
		Sliding Operation	The operation should not be stopped.

- Server Voice

Environmental and Evaluation Criteria	Condition	Evaluation Item	Management Specifications
Surrounding Noise	45 ~ 50dB	Voice Recognition Distance	10cm ~ 30cm
Operating Environment (RT(60))	~ 0.5 (Indoor)	Remote Control Operating Distance	30cm ~ 4M
Required Voice Level	60 dB or higher	Mis-recognition Test	24-hour broadcast data
TV Volume (dB)	Step 50		
Supported Languages	23 languages		
End of Voice Detection	Within 3 sec		
Maximum Input Time	Within 10 sec		
Response Time	As long as the input voice lasts		
Recognition Rate	70% or higher		

- Hot Keys

Environmental and Evaluation Criteria	Condition	Evaluation Item	Management Specifications
Response Time	Within 300 msec. (Connected State)	Distance	30cm
	Within 1.5 sec. (Disconnected State) IR: Within 300ms		4M
Recognition Rate	100%	Vertical Angle	
		Horizontal Angle	0° ~ 85°

- Pairing

Environmental and Evaluation Criteria	Condition	Evaluation Item	Management Specifications
Distance	30cm	Distance	30cm
Angle	0°		4M
Environment	The operation should not be effected.	Angle	0°
Response Time	1min.		45°
Recognition Rate	100%		

TV Controller

- Usability

Environmental and Evaluation Criteria	Condition	Evaluation Item	Management Specifications
Temperature/Humidity	0℃ ~ 50℃ 50% ~ 75%	Response Time	~ 200ms
		Continuous Operation	The operation should not be stopped.
		Number of Operations	5000 times
		Angle (in each direction)	3° or higher

TV Camera

- Internal

Environmental and Evaluation Criteria	Condition	Evaluation Item	Management Specifications
Surrounding Noise	~ 40dB	Distance (AF Operation)	1M
Environment [Illumination]	30Lux ~ 500Lux		4M
Temperature/Humidity	0℃ ~ 50℃ 50% ~ 75%	Angle (AF Operation)	45˚(Horizontal)
Response Time	Whthin 300 msec		20˚(Vertical)
Recognition Rate	100%		

- External

Environmental and Evaluation Criteria	Condition	Evaluation Item	Management Specifications
Surrounding Noise	~ 40dB	Distance (AF Operation)	1M
Environment [Illumination]	30Lux ~ 500Lux		4M
Temperature/Humidity	0℃ ~ 50℃ 50% ~ 75%	Angle (AF Operation)	45˚(Horizontal)
Response Time	Whthin 300 msec		20˚(Vertical)
Recognition Rate	100%		

AllShare Play

→ AllShare Play

Enjoy photos, music and/or movie files saved on a USB Mass Storage Class (MSC) device and/or your PC.

- To view content on a USB device, you should plug the device into a USB port on the TV.
- If you want to use a USB HDD, we recommend using a USB HDD that has a power adapter.

Connecting a USB Device

1. Turn on your TV.
2. Connect a USB device containing photo, music and/or movie files to the USB port on the TV.
3. When a USB device is connected to the TV, the New device connected. window appears. Select a category you want to play among Videos, Photos and Music.

✎ The TV may display the files on the USB device automatically if it is the only device connected.

Read this information before using AllShare Play with a USB device.

Restriction and Caution

- Before connecting your device to the TV, please back up your files to prevent them from damage or loss of

data. SAMSUNG is not responsible for any data file damage or data loss.

- Connect a USB HDD to the dedicated USB (HDD 5V 1A) port.
- Do not disconnect the USB device while it is loading.
- If you connect a USB device with a USB extension cable, the TV may not recognize the USB device or read the files on the device.

- If a USB device you connect to the TV is not recognized, the files on the device are corrupted, or a file in the list is not played, connect the USB device to a PC, format the device and check the connection.

- If a file you deleted from the PC is still found when you run AllShare Play, use the “Empty the Recycle Bin” function on the PC to permanently delete the file.

- If the database of the saved file list cannot be constructed because there is no free space on the USB device, you may not be able to view a new file even if you have added the file to the USB device.

Supported Devices

- Certain types of USB Digital camera and audio devices may not be compatible with this TV.

- AllShare Play supports only USB Mass Storage Class (MSC) devices. MSC is a Mass Storage Class Bulk-Only Transport device. Examples of MSC are Thumb drives, Flash Card Readers and USB HDD (USB HUB are not supported). Devices should be connected directly to the TV's USB port.

- More than 3TB USB HDD is not supported.

- If more than 2 PTP devices are connected, you can only use one at a time.
- If more than two MSC devices are connected, some of them may not be recognized. A USB device that requires high power (more than 500mA or 5V) may not be supported.
- If the TV has no input during the time set in Auto Protection Time, the Screensaver will run.

- The power-saving mode of some external hard disk drives may be released automatically when you connect them to the TV.

File system and formats

- The USB function might not work properly with unlicensed multimedia files.
- MTP (Media Transfer Protocol) is not supported.

- The file system supports FAT16, FAT32 and NTFS.
- AllShare Play supports only the Sequential jpeg format. It does not support the Progressive jpeg format.
- The higher the resolution of the image, the longer it takes to display on the screen.
- The maximum supported JPEG resolution is 15360 X 8640 pixels.
- If a file is corrupted or the TV does

not support the file type, the Not Supported File Format. message appears.

- If the files are sorted by Folder view, the TV can display the names of up to 1000 files in each folder.
- If the number of files and folders saved on a USB storage device is approximately over 8000, the files and folders may not appear and some folders may not be opened.

- The TV cannot play MP3 files with DRM that have been downloaded from a for pay site. Digital Rights Management (DRM) is a technology that supports the creation, distribution, and management of digital content in an integrated and comprehensive way, including protecting the rights and interests of content providers, preventing illegal copying of contents, and managing

billings and settlements.

- Even if the file to be played is encoded by a supported format, an error message may appear due to a sub container or profile problem.

Connecting to a PC through a network

You can play pictures, music, and videos saved in your PC through a network connection in the AllShare Play mode.

- For more information on how to configure your TV and connect it to your network, refer to “Setting up the Network” in this manual.
- To view content located on your PC, you must have connected your TV and your PC to your LAN and downloaded and installed AllShare Play PC Software on your PC.
- We recommend you locate both your TV and PC in the same

network subnet. IP addresses have four parts, separated by periods (111.222.333.444). If your TV and PC are in the same subnet, the first 3 parts of the TV IP address and the PC IP address (111.222.333) will be the same and only the last part (the host address) will be different.

The following AllShare Play functions are not supported when you are playing media from a PC connected through a

network:

- The Background Music and Background Music Setting functions.
- Sorting files by preference in the Photos, Music, and Videos folders.
  - The ◀◀ (REW) or ▶▶ (FF) function while a movie is playing.
- DivX DRM is not supported.
- Set your PC firewall programme so that AllShare Play PC Software is a permitted programme.

Depending on the Internet server, when you use AllShare Play through a network connection:

- The sorting method may vary.
- The Scene Search function may not be supported.
- The Resume function, which resumes playing of a video, may not be supported.
- The Resume function does not support multiple users. (It

memorizes only the point where the most recent user stopped playing a video.)

– The search function may not work depending on the content information.

✎ You may experience file stuttering while playing a video in AllShare Play through a network connection.

My list (In AllShare Play)

→ AllShare Play → My list

Using this function, you can access the content easily and quickly.

- Recently played

  Displays the videos, photos or music file list of recently played. If you have a file you want to play again, use this category.

  When you play a file from the Recently played list, and the USB

device is not connected or the file is not found, the "Unable to find the file." message appears.

- Up to 48 files are listed in descending order of playing time on the basis of the time configured on the TV so that the last played file comes first.
- When you try to play a file on a mobile phone, the file may not be played.

- What's new

  Displays the newly updated videos, photos or music file saved on the USB device or your PC. If you have a newly updated file you want to play, use this category.

- Playlist

  Displays the Playlist files saved on the USB device or your PC. If you want to play a playlist, select the playlist. The selected playlist will play immediately.

- You can create up to 12 playlists.
- You can add up to 100 files to a single playlist.
- You can only add one type of content to a single playlist. For example, you can only add music files to a playlist that includes music files.

Creating the Playlist

1. Select the desired file in the Videos,

Photos, or Music file list.

2. Open the Tools menu using your remote, and then select Add to Playlist.
3. Select a file you want to add. The ✓ mark appears in the check box.
4. Repeat Step 3 to select additional files.

   To select all the files in the list, select Select All. To cancel a selection, select the file again.

5. When done, select Add. The Add to Playlist screen appears.
6. Select Create new. The Create a new playlist. screen appears.
7. Enter playlist name using your remote.
8. When done, Select Done. The newly playlist is created.

To delete one or more files in the Playlist, follow these steps:

1. Select a playlist you want to edit.
2. Open the Tools menu using your remote, and then select Edit playlist. The Edit playlist screen appears.
3. Select a file you want to delete. The ✓ mark appears in the check box.
4. Repeat Step 3 to select additional files.

   To select all the files in the list, select Select All. To cancel a selection, select the file again.

5. When done, select Remove. A pop-up message appears.
6. Select Yes. The selected file(s) is removed in the Playlist.

Videos (In AllShare Play)

→ AllShare Play → Videos

You can play video files saved on USB device and/or your PC.

For more information about the subtitle formats and codec formats, refer to "Supported Subtitle and AllShare Play file formats" in the Other Information section.

Playing a Video

1. On the AllShare Play screen, select Videos.
2. Select the device you want to play.
3. Select the desired video in the file list.

   ✎ If you stop the playing, you can play the video later from the point where you stopped it.

   ✎ The file name appears on the top with its playing time.

   ✎ If video time information is

unknown, the playing time and progress bar are not displayed.

Playback control button with Videos

- ◀◀, ▶▶

  Each time you select ◀◀ or ▶▶ using your remote, the playback speed change as follows. (◀◀ 1 / ◀◀ 2 / ◀◀ 3 / ▶▶ 1 / ▶▶ 2 / ▶▶ 3)

- ◀, ▶ Standard remote control / Slide to left or right direction Smart Touch

Control

Jump to backward or forward from current position.

- ⏸

  Pause the scene.

  – In pause mode, select ⏩. Each time you select ⏩ using your remote, the playback speed is reduced to ⏵ 1/8 / ⏵1/4 / ⏵1/2.

  – In pause mode, select ⏸. Each time you select ⏸ using your remote, a

new frame will be appear.

- To return to normal speed playback, select ▶ using your remote.
- The product does not play sound in Step mode or Slow Motion.
- Slow Motion and Step Mode operate only in the forward direction.

Using the Tools menu with Videos

- On the file list screen, you can use the following these options:
  - View

    You can sort the file list by selecting sort criteria you want.
  - Play selection

    You can play by selecting the desired music file in the file list.
  - Send

    Lets you send your video files with your Family Story or other devices.

If you want to use this function, you should log in the Smart Hub.

– Login / Logout

You can login or logout your Samsung Account.

– Add to Playlist

Lets you make your own playlist. When you use the playlist, you can play music you want to listen easily and quickly.

– Go to playlist

Moves to Playlist screen.

– Information

Displays detailed information about the selected file.

- During playback, you can use the following these options:

– Go to Videos List

Moves to the file list screen.

– Play from the beginning

You can restart a video file from the beginning.

– Scene Search

You can use the Scene Search function during playback to view or start a movie from the scene of your choice.

If the index information is damaged or unsupported, you will not be able to use the Scene Search function.

– Title Search

You can move directly to another

title.

– Time Search

  Search the video or input the play time directly using your remote.

– Repeat Mode

  You can play movie files repeatedly.

– Picture Size

  You can adjust the picture size to your preference.

– Picture Mode

  You can change the Picture Mode.

– Sound Mode

You can change the Sound Mode.

– Audio Language

You can enjoy video in one of supported languages. The function is enabled only when you play stream-type files which support multiple audio formats.

– Subtitle

You can view a subtitle. You can select a specific language if the

subtitle file contains multiple languages.

– Subtitle Settings

Displays the Subtitle Settings. You can set up a subtitle option.

– Information

Displays detailed information about the selected file.

Viewing the file lists

When you use the AllShare Play

function with Family Story, Facebook or Picasa rather than a USB device, View is not supported.

1. To sort files in the file lists, select D using your remote. The View screen appears.
2. Select sort criteria you want.

- Folder view

  Displays the whole folder. You can view the file name and thumbnail by selecting the folder.

- Title

  Sorts and displays the file title in Symbol / Number / Alphabet / Special order.

- Latest Date

  Sorts and shows files by the latest date.

- Earliest Date

  Sorts and shows files by the earliest date.

Send your video files

Lets you send your video files with your Family Story or send files to other devices.

To use Send, you must be logged in to Smart Hub.

An example: Sending with your Family Story

1. Highlight a file, open the Tools menu using your remote, and then select Send.

2. Select a video file you want to send. A ✓ mark appears in the check box on the left.
3. Repeat Step 2 to select additional videos.

   To select all the files in the list, select Select All. To cancel a selection, select the file again.

4. When done, select Send. The Send screen appears.
5. Choose the destination device to

send to.

6. Choose the family group to share with. A pop-up window appears.
7. Enter a message to send to the family group you selected.

   ✎ If the QWERTY keyboard screen is displayed, you can use a keyboard connected to the TV to enter the message.
8. When done, select Send.

Photos (In AllShare Play)

→ AllShare Play → Photos

Viewing a photo (or slide show)

For more information about the subtitle formats and codec formats, refer to "Supported Subtitle and AllShare Play file formats" in the Other Information section.

1. On the AllShare Play screen, select Photos.

2. Select the device you want to play.

3. Select the desired photo file in the file list.

4. To start the slide show, select ► using your remote.

   ✎ To change a photo manually, press the ◄ or ► button. Standard remote control / To change a photo manually, slide to left or right direction in the Touch Pad. Smart Touch Control

- During the slide show, all files in the file list are displayed in order, starting from the file you selected.
- When watching a photo file or slide show, you can add background music if you have music files on same device.
- The background music cannot be changed until the BGM has finished loading.

Playback control button with Photos

- ◀◀ / ▶▶

  Change the slide show speed as follow. (Slow, Normal, Fast).

- ◀, ▶ Standard remote control / Slide to left or right direction Smart Touch Control

  Change to a previous or next photo.

- ■

  Return to the file list screen.

- ►

Start the slide show.

- II

  Pause the slide show.

Using the Tools menu with Photos

- On the file list screen, you can use the following options:
  - View

    You can sort the file list by selecting sort criteria you want.
  - Play selection

You can play by selecting the desired music file in the file list.

– Send

Lets you send your photos with your Family Story or photo-related applications.

If you want to use this function, you should log in the Smart Hub.

– Login / Logout

You can login or logout your Samsung Account.

- Add to Playlist

  Lets you make your own playlist. When you use the playlist, you can play photos you want to enjoy easily and quickly.

- Go to playlist

  Moves to Playlist screen.

- Information

  Displays detailed information about the selected file.

- When playing a photo file, you can use

the following these options:

– Go to Photos List

Moves to the file list screen.

– Start Slide Show / Stop Slide Show

You can start or stop a slide show. Alternatively, select ► or ❚❚ using your remote.

– Slide Show Speed

You can select the slide show speed during the slide show. Alternatively, select ◄◄ or ►► using your remote.

– Slide Show Effect

You can set various slide show effects.

– Background Music On / Background Music Off

You can start or stop background music.

– Background Music Setting

You can set and select background music when watching a photo file or slide show.

– Picture Mode

You can change the Picture Mode.

– Sound Mode

You can change the Sound Mode.

Available only when the background music is set to on.

– Zoom

You can zoom into images in full screen mode.

– Rotate

You can rotate images.

– Information

Displays detailed information about the selected file.

Viewing the file lists

When you use the AllShare Play function with Family Story, Facebook or Picasa rather than a USB device, View is not supported.

1. To sort files in the file lists, select D using your remote. The View screen

appears.

2. Select sort criteria you want.

- Folder view

  Displays the whole folder. You can view the file name and thumbnail by selecting the folder.

- Title

  Sorts and displays the file title in Symbol / Number / Alphabet / Special order.

- Latest Date

Sorts and shows files by the latest date.

- Earliest Date

  Sorts and shows files by the earliest date.

- Monthly

  Sorts and shows photo files by month.

Send your photos

Lets you send your photos with your

Family Story or other devices.

If you want to use this function, you should log in the Smart Hub.

1. For example, suppose that you want to send with your Family Story.
2. To send photo files in the file list, open the Tools menu using your remote, and then select Send.
3. Select a photo file you want to send. The ✓ mark appears in the check box.

4. Repeat Step 3 to select additional potos.

   To select all the files in the list, select Select All. To cancel a selection, select the file again.

5. When done, select Send. The Send screen appears.

6. Choose the destination device to send.

7. Choose the family group to share. A pop-up window appears.

8. Enter a message to send to family group you selected.

   ✎ In the QWERTY keypad screen, you can use the keyboard connected to the TV.

9. When done, select Send.

Music (In AllShare Play)

→ AllShare Play → Music

Playing Music

For more information about the subtitle formats and codec formats, refer to "Supported Subtitle and AllShare Play file formats" in the Other Information section.

1. On the AllShare Play screen, press the arrow button to select Music.

2. Select the device you want to play.

3. Select the desired music file in the file list or select ► using your remote.

   ✎ To move a previous page, select B using your remote. To move a next page, select C using your remote.

   ✎ When the music is playing, you can search the music file by selecting ◄◄ or ►► using your remote.

If the sound is abnormal when you play MP3 files, adjust the Equaliser in the Sound menu. (An over modulated MP3 file may cause a sound problem.)

Playback control button with Music

During playback, you can use additional functions at the bottom right of the screen.

- Play / Pause

You can start or pause a music file. Alternatively, you can select ► or ❚❚ using your remote.

- Repeat Mode

  You can play movie files repeatedly.

- Shuffle Mode

  You can play the music sequentially or randomly.

- Sound Mode

  You can change the Sound Mode.

Using the Tools menu with Music

- You can use the following options:
  - View

    You can sort the file list by selecting sort criteria you want.
  - Play selection

    You can play by selecting the desired music file in the file list.
  - Send

    Lets you send your music files with your Family Story or other device.

If you want to use this function, you should log in the Smart Hub.

– Login / Logout

You can login or logout your Samsung Account.

– Add to Playlist

Lets you make your own playlist. When you use the playlist, you can play music you want to listen easily and quickly.

– Go to playlist

Moves to Playlist screen.

– Encoding

You can select an encoding format from the encoding format list.

– Information

Displays detailed information about the selected file.

Playing selected music files using Music

1. Select the desired music file in the file list.

2. Open the Tools menu using your remote, and then select Play selection.
3. Select the tracks you want to add. The ✓ mark appears in the check box.
4. Repeat Step 3 to select additional tracks.

   ✎ To select all the files in the list, select Select All. To cancel a selection, select the file again.

5. Select Play. The selected music files play.

Viewing the file lists

When you use the AllShare Play function with Family Story, Facebook or Picasa rather than a USB device, View is not supported.

1. To sort files in the file lists, select D using your remote. The View screen appears.

2. Select sort criteria you want.

- Folder view

  Displays the whole folder. You can view the file name and thumbnail by selecting the folder.

- Title

  Sorts and displays the file title in Symbol / Number / Alphabet / Special order.

- Artist

  Sorts the music file by artist in

alphabetical order.

- Album

  Sorts the music file by album in alphabetical order.

- Genre

  Sorts the music files by the genre.

Send your music files

Lets you send your music files with your Family Story or other devices.

If you want to use this function, you

should log in the Smart Hub.

1. For example, suppose that you want to send with your Family Story.
2. To send music files in the file list, open the Tools menu using your remote, and then select Send.
3. Select a music file you want to send. The ✓ mark appears in the check box.
4. Repeat Step 3 to select additional tracks.

To select all the files in the list, select Select All. To cancel a selection, select the file again.

5. When done, select Send. The Send screen appears.
6. Choose the destination device to send.
7. Choose the family group to share. A pop-up window appears.
8. Enter a message to send to family group you selected.

- In the QWERTY keypad screen, you can use the keyboard connected to the TV.

9. When done, select Send.

Recorded TV (In AllShare Play)

→ AllShare Play → Recorded TV

To use the recording or Timeshift function, the connected USB device must be available for recording. Device format is recommended to use USB HDD.

- During the Device formatting, do not disconnect the device while formatting is in progress. If you format the device, all files will be

deleted.

- Before formatting your device to the TV, please back up your files to prevent them from damage or loss of data. SAMSUNG is not responsible for any data file damage or data loss.

To record a current broadcasting programme

Allows you to record a programme currently being broadcasted.

Set the current time first to use this function.

1. When you record a broadcast programme, select ● using your remote. A pop up window will appear.

   ✎ We recommend using a USB HDD with at least 5,400 rpm, but a USB HDD of RAID type is not supported.

   ✎ A USB storage device cannot

record until it completes the Device Performance Test.

- The file systems of the PVR output (Personal Video Recorder) and the Camera app are different. Therefore, you cannot save both output types on the same USB device. To make a recording using the PVR and the Camara app, you have to save the recordings using different USB ports.

2. Select Length to set up the recording time, and then select OK.

Playing Recorded TV Programme

1. On the AllShare Play screen, select Recorded TV.
2. Select the device you want to play.
3. Select the desired recorded TV file in the file list.

   ✎ To move a previous page, select C using your remote. To move a

next page, select B.

4. Select ►.

- The selected file is displayed on the top with its playing time.

Playback control button with Recorded TV

- ◄◄, ►►

  Each time select ◄◄, ►► your remote, the playback speed change as follows. (◄◄ 1 / ◄◄ 2 / ◄◄ 3 / ◄◄ 4 / ◄◄ 5 / ◄◄ 6 / ◄◄ 7 / ►► 1 / ►► 2 / ►► 3 / ►► 4 / ►► 5 / ►► 6 / ►► 7)

- ◀, ▶ Standard remote control / Slide to left or right direction Smart Touch Control

  Jump to backward or forward from current position.

- ⏸ button

  Pause the scene.

  – In pause mode, select ⏩ using your remote. Each time select ⏩ using your remote, the playback speed is reduced to ⏯1/8 / ⏯1/4 / ⏯1/2.

  – In pause mode, select ⏸ using your

remote. Each time the ⏸ function is selected, a new frame will be appear.

- To return to normal speed playback, select ▶ using your remote.
- The product does not play sound in Step mode or Slow Motion.
- Slow Motion and Step Mode operate only in the forward direction.

Using the Tools menu with Recorded TV

- On the file list screen, you can use the following these options:
  - Play Current Group

    Play the contents of the selected groups.
  - View

    You can sort the file list by selecting sort criteria you want.
  - Play selection

    You can play by selecting the desired

music file in the file list.

– Delete

Deletes the file from the list.

– Add to Playlist

Lets you make your own playlist. When you use the playlist, you can play music you want to listen easily and quickly.

– Go to playlist

Moves to Playlist screen.

– Lock/Unlock

To enable or disable the lock.

– Device Management

On the device can scan and format.

- The following functions are available only in selected content item.

– Rename

Change the name of the content.

– Information

Displays detailed information about the selected file.

- During playback, you can use the

following these options:

– Go to Recorded List

  Moves to the file list screen.

– Play from the beginning

  You can restart a video file from the beginning.

– Title Search

  You can move directly to another title.

– Time Search

  Search the video or input the play

time directly using your remote.

– Repeat Mode

You can play movie files repeatedly.

– Picture Size

You can adjust the picture size to your preference.

– Picture Mode

You can change the Picture Mode.

– Sound Mode

You can change the Sound Mode.

– Information

Displays detailed information about the selected file.

Calendar

→ Calendar

Calendar function provides information such as solar calendar, lunar calendar, solar terms, heavenly stems, earthly branches, Chinese zodiac, western zodiac, holiday, etc. Among which, lunar calendar is used very often in our life. For example, all traditional Chinese festivals use lunar calendar, farming also needs to consult lunar calendar

and solar terms, most Chinese people celebrate their birthdays according to lunar calendar, even when choosing big days such as wedding day, they would consult lunar calendar as well. Furthermore, the calendar is integrated with note function for you to edit important holiday information as a reminder.

A Today: Show current date.

B Go To Date: Go to the date you

want.

C Memo List: Show the memo list.

◀◀ / ▶▶ Prev./Next Month: Change month.

Edit: Edit focus date note.

Return: Return to up-level menu.

Edit Note

You can use the note in calendar to input important holiday information as a reminder.

1. In Calendar menu, press ▲/▼/◀/▶

button to select the date you want.

2. Press ENTER ↵ button to open the note editor, then select the appropriate input method to edit the note.

Tips

- Available input methods include PinYin (Simplified yyChinese/ Traditional Chinese), stroke (Simplified Chinese/ Traditional Chinese), English (upper/lower case),

digits and other symbols.

- User can switch input method by using the — button on the remote and delete previous entry by using “PRE-CH” button.
- Key operation in abc/ABC input method :
  - Press corresponding number key one or more times to enter candidate character.
  - Cursor disappears in the editor

to indicate pending status until 1 second has past or another key has been pressed.

– The target character is selected when pending status ends.

3. After editing, press ENTER↵ button to save.

Tips

- If time information has been set, the focus date is yycurrent date. If time information hasn't be set, the focus

date is default date (Jan 1, 2012).

- If notes have been added, the note for present day yypops up when the TV is turned on.
  - If there is no note, nothing pops up.
  - The display time is 10 seconds.
  - If there is channel information, it will pop up after the Channel Bar disappears. If there is no channel information, it will pop up after

user handles the onscreen menu for searching channels.

- If the note is very long, it will display “...” at the end.
- The number of note entries must not exceed 100. (Otherwise, “The note list is full, please delete some notes before adding more” message appears.)
- There should be no more than 45 characters in each note.

Edit/Delete Memo List

In the main screen of Calendar, select the Memo List icon to show memo information.then press the ENTER↵ button, you can edit or delete the selected memo items.

Timeshift

Using the Timeshift function

If you missed a live broadcast, you can see from the recorded broadcast using this feature.

1. When you watch a broadcast programme, select ► using your remote to start the Timeshift function.
2. If you want to stop the Timeshift

function, select ■ using your remote.

- The Timeshift mode operates for a maximum of 90 minutes.
- The Timeshift function is not supported for analogue channels.
- The Timeshift functions are disabled for channels locked with Channel Lock.

Before using the Timeshift and a record function...

Recorded videos are DRM (digital rights management) protected and cannot be played on a PC or other TVs. Note that files saved on the TV cannot be used after the main board is changed.

NOTE

- We recommend using a USB HDD with at least 5,400 rpm, but a USB HDD of RAID type is not supported.
- The availability of both recording and

the Timeshift function may differ depending on picture quality and the free space on the USB disk drive.

- USB memory stick is not compatible.
- When the Timeshift is used to the gunwales, the pause may be cancelled.
- If the 5% free memory space limit of the USB storage device is reached, the current recording process will be closed.
- When recording is performed by both

the PVR (Personal Video Recorder) function and a device that supports the HDMI-CEC feature, recording by the PVR function takes precedence.

- If the USB device has failed the Device Performance Test, the USB device must go through the Device Format and Device Performance Test again before you record with the Guide or Channel.
- The Timeshift functions can only be used with a USB storage device that

completed the Device Performance Test.

- If you attempt the recording or Timeshift function with a device that did not have the Device Performance Test, the function will not start.
- If any function that turns off the TV (Sleep Timer, Off Timer, etc.) is set for a time that conflicts with recording, the TV will be turned off once the recording is complete.

- For the Schedule Recording operation,the USB device requires 1.5GB of free space.
- The Schedule Recording function requires 100MB of free space on the USB device.
- If the free space of the USB device decreasas to less than 50MB while a Schedule Recording is operating,the Schedule Recording function is automatically terminated.

- When both the Schedule Recording and Timeshift functions are running, and the free space on the USB device decreases to less than 500MB, only the Schedule Recording function is automatically terminated.

- The Timeshift function continues even after changing the digital channel and users can watch past programs using the saved Timeshift data.

  – If the TV enters a state where the

Timeshift function is not supported (application execution, input signal switching, analogue channel change, etc.), the Timeshift data are not saved.

- If the TV enters a state where the Timeshift function is not supported (application execution, input signal switching, analogue channel change, etc.) while the Timeshift function is running, it is automatically terminated

without an additional message being displayed.

- If a user tunes to a digital channel, the suspended Timeshift function resumes automatically.

Using the DLNA Function

→ AllShare Play

You can play media contents including videos, photos, and music saved on your mobile phones or the other devices (such as your PC) by controlling them on the TV via the network.

For more information, visit “www.samsung.com” or contact the Samsung call centre. Mobile devices may need additional software

installation. For details, refer to each device's user's guide.

- If your Samsung TV connects to a non-Samsung DLNA server, a compatibility issue may occur during video playback.
- By connecting your Samsung TV to a network via AllShare Play, you can use Samsung's original functions as follows:

  – Playback of various video formats

(DivX, MP4, 3GP, AVI, ASF, MKV, etc.)

- Video thumbnail feature
- Bookmark function (to resume video playback)
- Auto-chaptering (scene navigation)
- Digital content management
- Compatibility with various subtitle formats (SRT, SMI, SUB, TXT, TTXT)

– Search with file names

– And many others

To use the original DLNA functions of Samsung fully, it is recommended that you use the AllShare Play software provided with your TV.

AllShare Settings

Menu → Network → AllShare Settings

Shows a list of mobile phones or connected devices which have been set

up to use AllShare Settings with this TV.

The AllShare Settings function is available in all devices which support DLNA DMC.

- Allowed / Denied: Allows / Blocks the devices.
- Delete: Deletes the devices from the list.

This function only deletes the name of the device from the list. If the

deleted device is turned on or tries to connect to the TV, it may appear on the list again.

To play the media contents of the devices connected to DLAN function, follow these steps:

1. On the AllShare Play screen, select desired menu (Videos, Photos, My list, Recorded TV, Music).
2. Select DLNA. The TV displays the

file list of the connected device using the DLNA function.

3. Select the desired file in the file list. The selected file will play.

Playing the media contents saved on the devices

1. Connect the mobile phone or other devices which support AllShare Play function, and then play the media contents of each device. The popup

screen appears on the bottom of your TV.

2. Select the Allow to accept the connected devices. The media contents of the devices can be playing on your TV.

   ✎ You can find the allowed devices on the AllShare Settings.

✎ An alarm window appears informing you that media contents (videos, photos, music) sent from a mobile

phone will be displayed on your TV. The contents are played automatically 3 seconds after the alarm window appears.

– If you close the alarm window using your remote when the alarm window appears, the media contents are not played.

✎ The first time a device accesses your TV through the media function, a warning pop up window appears.

Select Allow. This permits the phone to access the TV freely and use the Media function to play content.

- To turn off media contents transmissions from a mobile phone, set a device to Denied in the AllShare Settings.
- Contents may not play on your TV depending on their resolution and format.
- The some buttons may not work

depending on the type of media content.

- Using the mobile device, you can control the media play. For details, refer to each mobile's user's guide.

Using the MHL function

You can enjoy videos, photos and music files on your TV when connecting it with a mobile device that supports Mobile High-Definition Link (MHL) function.

- To use the MHL function, you need an MHL-certified mobile device. You can check if your mobile device is MHL certified on the device manufacturer's website. To find a list

of MHL-certified devices, visit the official MHL website (http://www.mhlconsortium.org)

To use the MHL function, follow these steps:

1. With an MHL-dedicated cable, connect the USB port of the mobile device and the **HDMI IN 3 (MHL)** port of the TV.

   ✎ You can also connect the HDTV

adapter.

2. Select Source using your remote. The Source screen appears.
3. Select HDMI3.

- To use the MHL function, you must upgrade the software to the latest version.
- When you use a MHL cable, only the **HDMI IN 3 (MHL)** port of the TV supports the MHL function.
- This product is officially MHL-

certified. If you encounter any problem when using the MHL function, please contact the manufacturer of the mobile device.

- Some mobile devices (products) may not support the function depending on the performance or the function of the device.
- Since the TV screen is wider than the mobile device screen, the visual quality may seem degraded.

- When you use a MHL-dedicated cable, you can charge the connected mobile device even if the TV is in standby state.
- The TV remote control supports the following buttons:

for Standard Remote Control

▲ / ▼ / ◀ / ▶ (Menu navigation)

◀◀ (REW), ▶▶ (FF), ↵ (select)

► (play), II (pause), ■ (stop)

↩ (Move to previous menu)

for Smart Touch Control

Menu navigation: Slide your finger in the Touch Pad from one direction to the opposite direction.

Press the button in the top centre of Touch Pad. The TV displays these control functions:

– ◀◀ (REW), ▶▶ (FF), ⏎ (select), ▶ (play), ❚❚ (pause), ■ (stop), ↩ (Move to previous menu)

Anynet+ (HDMI-CEC)

Menu → System → Anynet+ (HDMI-CEC)

Anynet+ is a function that enables you to control all connected Samsung devices that support Anynet+ with your Samsung TV's remote. The Anynet+ system can be used only with Samsung devices that have the Anynet+ feature. To be sure your Samsung device has this feature, check if there is an Anynet+ logo on it.

- You can only control Anynet+ devices using the TV's remote control, not the buttons on the TV.
- The TV remote control may not work under certain conditions. If this occurs, reselect the Anynet+ device.
- The Anynet+ functions do not operate with other manufacturers' products.
- For instructions explaining how to connect Anynet+ external devices,

refer to the device's user manual. You must connect an Anynet+ device using an HDMI cable. Some HDMI cables may not support Anynet+ functions.

- Anynet+ works when the AV device supporting Anynet+ is in the standby or on status.
- Anynet+ supports up to 12 AV devices in total. Note that you can connect up to 3 devices of the same

type.

✎ However, you can connect only one Anynet+ Home Theatre. To connect an Anynet+ Home Theatre, connect the Home Theatre to the TV using an HDMI cable then:

– To hear sound from the Home Theatre's front, left and right speakers and the subwoofer only, connect a digital optical cable between the **DIGITAL AUDIO OUT**

(OPTICAL) port on your TV and the Digital Audio Input on the Home Theatre.

– To hear 5.1 channel audio, connect HDMI cables to your Anynet+ DVD player, satellite box, etc. Then, connect the **DIGITAL AUDIO OUT (OPTICAL)** port on your DVD player, Satellite Box, etc. (i.e. Anynet + Device 1 or 2) directly to the Home Theatre, not the TV.

Anynet+ (HDMI-CEC) Menu

The Anynet+ menu changes depending on the type and status of the Anynet+ devices connected to the TV.

- View TV

  Changes Anynet+ mode to TV broadcast mode.

- Device List

  Shows the Anynet+ device list.

- (device_name) Menu

Shows the menu of the connected device menus. E.g. if a DVD player is connected, the disc menu of the DVD player will appear.

- (device_name) Tools

  Shows the tools menu of the connected device. E.g. if a DVD player is connected, the tools menu of the DVD player will appear.

  Depending on the device, this menu may not be available.

- (device_name) Title Menu

  Shows the title menu of the disc in the connected device. E.g. If a DVD player is connected, the title menu of the movie in the DVD player will appear.

  Depending on the device, this menu may not be available.

- Receiver

  Sound is played through the receiver.

Setting up Anynet+ (HDMI-CEC)

- Anynet+ (HDMI-CEC)

  To use the Anynet+ Function, Anynet+ (HDMI-CEC) must be set to On.

  ✎ When the Anynet+ (HDMI-CEC) function is disabled, all the Anynet+ related operations are deactivated

- Auto Turn Off

  Set an Anynet+ Device to turn off automatically when the TV is turned off.

- If the Auto Turn Off is set to Yes, running external devices will turn off at the same time as the TV powers off.
- May not be enabled depending on the device.

- Receiver

  You can listen to sound through a receiver (i.e. Home Theatre) instead of the TV Speaker.

Switching between Anynet+ Devices

1. Open the Tools menu using your remote, and then select Anynet+ (HDMI-CEC).
2. Select Device List. The Device List screen appears.

   If you cannot find a device you want, select Refresh to refresh the list.

3. Select a device, and then wait until switch to the selected device.

- The Device List menu appears only when you set Anynet+ (HDMI-CEC) to On in the System menu.
- Switching to the selected device may take up to 2 minutes. You cannot cancel the switching operation while switching is in progress.
- If you have selected an Anynet+ device using Source function and

then selecting its input source, you cannot use the Anynet+ function. Make sure to switch to an Anynet+ device by using the Device List.

Listening through a Receiver

You can listen to sound through a receiver (i.e. Home Theatre) instead of the TV Speaker. To listen to sound through a receiver, go to Receiver

screen (System → Anynet+ (HDMI-CEC) → Receiver). Then select Receiver and set to On.

- If your receiver supports audio only, it may not appear in the device list.
- The receiver will work when you have properly connected the optical in jack of the receiver to the **DIGITAL AUDIO OUT (OPTICAL)** port of the TV.

When the receiver (i.e. Home Theatre) is set to on, you can hear sound output from the TV' s Optical jack. When the TV is displaying a DTV (air) signal, the TV will send out 5.1 channel sound to the receiver. When the source is a digital component such as a DVD player and it is connected to the TV via HDMI, you will hear only 2 channel sounds from the

receiver.

Using the ARC function

You can listen to sound through a receiver connected using an HDMI cable without connecting a separate optical cable. To listen to sound through a receiver using the ARC function, go to Receiver screen (System → Anynet+ (HDMI-CEC) → Receiver). Then select Receiver and set to On.

- To use the ARC function, a receiver which supports the HDMI-CEC and ARC features must be connected to the **HDMI IN 2 (ARC)** port.
- To disable the ARC function, set the Receiver to Off. Even if the TV transmits the ARC signal continuously, the receiver will be blocked from receiving the signal.

Troubleshooting

Menu → Support → Self Diagnosis → Troubleshooting

If you have any questions about the TV, first refer to this list. If none of these troubleshooting tips apply, please visit “www.samsung.com” then clicks on Support, or contact the call centre listed on the back-cover of this manual.

Picture Quality

First of all, please perform the Picture Test and confirm that your TV is properly displaying test image.

(Go to Menu → Support → Self Diagnosis → Picture Test)

If the test image is properly displayed, the poor picture may caused by the source or signal.

The TV image does not look as good as it did in the store.

- If you have an analogue cable / set top box, upgrade to a digital set top box. Use HDMI or Component cables to deliver HD (high definition) picture quality.
- Cable / Satellite subscribers: Try HD stations from the channel line up.
- Aerial connection: Try HD stations after performing Auto programme.

  ✎ Many HD channels are up scaled from SD(Standard Definition)

contents.

- Adjust the Cable/Set top box video output resolution to 1080i or 720p.
- Make sure you are watching the TV at the minimum recommended distance based on the size and definition of the signal.

The picture is distorted: macro block error, small block, dots, pixelization

- Compression of video contents may

cause picture distortion especially in fast moving pictures such as sports and action movies.

- Low signal level or bad quality can cause picture distortion. This is not a TV issue.
- Mobile phones used close to the TV (cca up to 1m) may cause noise in picture on analogue and digital TV.

Colour is wrong or missing.

- If you're using a component connection, make sure the component cables are connected to the correct jacks. Incorrect or loose connections may cause colour problems or a blank screen.

There is poor colour or brightness.

- Adjust the Picture options in the TV menu (go to Picture / Colour / Brightness / Sharpness)

- Adjust Energy Saving option in the TV menu (go to Menu → System → Eco Solution → Energy Saving)
- Try resetting the picture to view the default picture settings (go to Menu → Picture → Reset Picture)

There is a dotted line on the edge of the screen.

- If the picture size is set to Screen Fit, change it to 16:9.

- Change cable / satellite box resolution.

The picture is black and white.

- If you are using an AV composite input, connect the video cable (yellow) to the Green jack of component input 1 on the TV.

When changing channels, the picture freezes or is distorted or delayed.

- If your TV connected with a cable / set-top box, reconnect the AC cord and wait until the cable / set-top box reboots.
- Set the output resolution of the cable box to 1080i or 720p.

Sound Quality

First of all, please perform the Sound Test to confirm that your TV audio is properly operating. (Go to Menu →

Support → Self Diagnosis → Sound Test)

If the audio is OK, the sound problem may caused by the source or signal.

There is no sound or the sound is too low at maximum volume.

- Please check the volume the of external device connected to your TV.

The picture is good but there is no sound.

- Set the Speaker Select option to TV Speaker in the sound menu.
- If you are using an external device, make sure the audio cables are connected to the correct audio input jacks on the TV.
- If you are using an external device, check the device's audio output option (ex. you may need to change your cable box's audio option

to HDMI when you have a HDMI connected to your TV).

- If you are using a DVI to HDMI cable, a separate audio cable is required.
- If your TV has a headphone jack, make sure there is nothing plugged into it.

The speakers are making an inappropriate noise.

- Check the cable connections. Make

sure a video cable is not connected to an audio input.

- For aerial or cable connections, check the signal strength. Low signal level may cause sound distortion.

No Picture, No Video

The TV won't turn on.

- Make sure the AC power cord is securely plugged in to the wall outlet

and the TV.

- Make sure the wall outlet is working.

The TV turns off automatically.

- Ensure the Sleep Timer is set to Off in the Setup menu.
- If your PC is connected to the TV, check your PC power settings.
- Make sure the AC power cord is plugged in securely to the wall outlet and the TV.

- When watching TV from an aerial or cable connection, the TV will turn off after 10~15 minutes if there is no signal.

There is no picture/Video.

- Check cable connections (remove and reconnect all cables connected to the TV and external devices).
- Set your external devices' (Cable / Set top Box, DVD, Blu-ray etc) video

outputs to match the connections to the TV input. For example, if an external device's output is HDMI, it should be connected to an HDMI input on the TV.

- Make sure your connected devices are powered on.
- Be sure to select the TV's correct source by select Source using your remote.

This file may not be playable properly.

- This may appear because of high bit rate of content. Content generally will play but could experience some playability issue.

RF (Cable / Aerial) Connection

The TV is not receiving all channels.

- Make sure the Aerial cable is connected securely.

- Please try Setup to add available channels to the channel list. Go to Menu → System → Setup and wait for all available channels to be stored.
- Verify the Aerial is positioned correctly.

The picture is distorted: macro block error, small block, dots, pixelization.

- Compression of video contents may

cause picture distortion, especially with fast moving pictures such as sports and action movies.

- A low signal can cause picture distortion. This is not a TV issue.

PC Connection

A “Mode Not Supported” message appears.

- Set your PC’s output resolution so it matches the resolutions supported

by the TV.

The video is OK but there is no audio.

- If you are using an HDMI connection, check the audio output setting on your PC.

Network Connection

The wireless network connection failed.

- Make sure the Network Connection is

set to Wireless.

- Make sure the TV is connected to a wireless IP sharer (router).

Recording / Timeshift

The USB device is not recognized or a Device Format, Checking Device or Device Performance Test fails.

- See the manual for the USB device to check that the USB device supports

recording.

- If the USB device has a lock, ensure it is off.
- Check that the USB device can be formatted when connected to the PC. Connect the USB to the TV and format it. (Formatting may fail intermittently.)
- If a Device Performance Test or formatting failed, it means that there is a problem with the USB hardware

or the performance of the USB hardware is too low.

A message prompts me to format a USB device that has been working well.

- If the USB device has a lock, ensure it is off.
- Recover the USB device using the recovery function in Checking Device.

The recording function does not work.

- Check that a USB device is connected.
- Check that the channel is a recordable digital channel.
- If the signal is weak or does not exist, the recording function will automatically be closed.
- The TV will not record if the USB device has no free memory space. Check that this is not the case.

Timeshift Mode does not work.

- Check that a USB device is connected.
- Radio channels and analogue broadcasts are not supported.
- Data broadcast channels are not supported.
- If the signal is weak or does not exist, the Timeshift Mode function will automatically be closed.

- Timeshift Mode cannot be performed if the USB device has no free memory space. Check that this is not the case.
- USB memory stick is not supported. Please use the USB HDD type.

A message indicates a performance test failure, and the recording and Timeshift Mode functions do not work.

- These problems may occur if you

use a low-performance USB device that does not support recording. We recommend using a USB HDD with at least 5 400 rpm, but a USB HDD of RAID type is not supported.

A scheduled recording has failed.

- A scheduled recording is disabled for certain operations (formatting, performance test, error checking, deleting) that access the file system

of a USB device.

- If there is no USB device connected, the TV will not record even if the scheduled time is reached.
- The TV will not record if the USB device has no free memory space. Check that this is not the case.
- If you record a channel locked with Programme Rating Lock, the PIN input window will appear when you try to play back the recording.

Several recording devices are connected but the TV stopped recording.

- If multiple recording devices are connected and the device set as Default Recording Device has no free memory space, the recording function will be closed. Attempt recording again. The device with the most free memory space will automatically be set as Default

Recording Device and the TV will start recording.

Others

The picture won't display in full screen.

- HD channels will have black bars on either side of the screen when displaying up scaled SD (4:3) contents.
- Black bars on the top and bottom

will appear during movies that have aspect ratios different from your TV.

- Adjust the picture size options on your external device or TV to full screen.

The cable/set top box remote control doesn't turn the TV on or off, or adjust the volume.

- Programme the Cable/Set top box remote control to operate the TV.

Refer to the Cable/Set user manual for the SAMSUNG TV code.

A “Mode Not Supported” message appears.

- Check the supported resolution of the TV, and adjust the external device’s output resolution accordingly.

There is a plastic smell from the TV.

- This smell is normal and will dissipate over time.

The TV Signal Information is unavailable in the Self Diagnosis menu.

- This function is only available with digital channels from an Aerial / RF / Coax connection.

The TV is tilted to the side.

- Remove the base stand from the TV and reassemble it.

There are difficulties assembling the stand base.

- Make sure the TV is placed on a flat surface. It is necessary to use magnetized screw driver if you cannot remove the screws from the TV.

The channel menu is greyed out. (Unavailable)

- The Channel menu is only available

when the TV source is selected.

Your settings are lost after 30 minutes or every time the TV is turned off.

- If the TV is in the Store Demo mode, it will reset audio and picture settings every 30 minutes. Change the settings from Store Demo mode to Home Use mode in the Setup procedure. Select TV in the Source using your remote, and go to Menu

→ System → Setup.

You have intermittent loss of audio or video.

- Check the cable connections and reconnect them.
- Loss of audio or video can be caused by using overly rigid or thick cables. Make sure the cables are flexible enough for long term use. If mounting the TV to the wall, we

recommend using cables with 90 degree connectors.

You see small particles when you look closely at the edge of the frame of the TV.

- This is part of the product's design and is not a defect.

The PIP menu is not available.

- PIP functionality is only available when you are using a HDMI or

components source.

You turned the TV off 45 minutes ago, and it turned on again.

- It is normal. The TV operates the OTA (Over The Aerial) function itself to upgrade firmware downloaded whilst your watching TV.

There are recurrent picture/ sound issues.

- Check and change the signal/source.

A reaction may occur between the rubber cushion pads on the base stand and the top finish of some furniture.

- To prevent this, use felt pads on any surface of the TV that comes in direct contact with furniture.

You can keep your TV as optimum condition to upgrade the latest firmware on web site (samsung.com →

Support → Downloads) by USB.

POP (TV's internal banner ad) appears on the screen.

Select Home Use under Setup mode.

For details, refer to the Setup Feature.

Anynet+ (HDMI-CEC)

Anynet+ does not work.

Check if the device is an Anynet+

device. The Anynet+ system supports Anynet+ devices only.

You can connect only one receiver (home theatre).

Check if the Anynet+ device power cord is properly connected.

Check the Anynet+ device's Video/Audio/HDMI cable connections.

Check whether Anynet+ (HDMI-CEC) is set to On in the Anynet+ setup menu.

Check whether the TV remote control is

in TV mode.

Check whether the remote control is Anynet+ compatible.

Anynet+ doesn't work in certain situations. (Searching channels, operating Smart Hub or Setup, etc.)

If you have removed and then reconnected the HDMI cable, please make sure to search devices again or turn your TV off and on again.

I want to start Anynet+.

Check if the Anynet+ device is properly connected to the TV and check if the Anynet+ (HDMI-CEC) is set to On. (Menu → System → Anynet+ (HDMI-CEC))

Press the Tools menu to display the Anynet+ menu and select a menu you want.

I want to exit Anynet+.

Select View TV in the Anynet+ menu.

Go to Source screen using your remote and select a non- Anynet+ device.

The message Connecting to Anynet+ device ... appears on the screen.

You cannot use the remote control when you are configuring Anynet+ or switching to a view mode.

Use the remote control after the TV has completed Anynet+ configuration or

has finished switching to Anynet+.

The Anynet+ device does not play.

You cannot use the play function when Setup is in progress.

The connected device is not displayed.

Check whether or not the device supports Anynet+ functions.

Check whether or not the HDMI cable is properly connected.

Check whether Anynet+ (HDMI-CEC) is set to On. (Menu → System → Anynet+ (HDMI-CEC))

Search Anynet+ devices again.

Anynet+ requires an HDMI connection. Make sure the device is connected to your TV with an HDMI cable.

Some HDMI cables may not support Anynet+ functions.

If the connection is terminated because there has been a power failure or the

HDMI cable has been disconnected, please repeat the device scan.

The TV sound is not output through the receiver.

Connect the optical cable between TV and the receiver.

The ARC function enables digital output of sound using the **HDMI IN 2(ARC)** port and can only be operated when the TV is connected to an audio receiver that

supports the ARC function.

AllShare Play

This file may not be playable properly.

This may appear because of high bit rate of content. Content generally will play but could experience some playability issue.

Smart Hub

Some application contents only appear in English. How can I change the language?

The Application content language may be different from the application user interface language.

The ability to change the language depends on the service provider.

Some application services do not work.

Check with the service provider.

Refer to the help website for application service provider information.

When a network error occurs, I can only use the setting menu.

If network connection doesn't work, your service might be limited, as all functions except the setting menu are needed to connect to the internet.

Web Browser

1. To open Web Browser, select Web Browser. The Web Browser may be displayed differently with PC.
2. The Web Browser is not compatible with a Java application.
3. When attempted to download a file, but the file could not be saved and an error message appeared.
4. Access may be blocked to some websites or to web browsers operated by certain businesses.

5. Playback of Flash video may be restricted.
6. E-commerce, for purchasing products online, is not supported.
7. Scrolling a web page that allows only part (and not the whole) of the page to be scrolled may cause corrupted characters.
8. ActiveX is not supported.
9. Some options cannot be accessed in Tab mode. (To access such options,

switch to Pointer mode.)

10. Some text may appear corrupted because the number of supported fonts is limited.

11. The response to a command on the remote or the screen display may be delayed temporarily if a web page is currently loading.

12. The loading of a web page may delay or stop with some operating systems.

13. Copy and Paste are not supported.
14. When writing emails or posting messages, some functions (Such as changing the size or colours.) may not be supported.
15. The number of bookmarks and logs that can be saved is limited.
16. The maximum number of windows that can open at the same time may vary depending on the browsing condition or TV model.

17. The web browsing speed depends on the network conditions.

18. PIP will automatically be deactivated if a video is played in the browser. Videos may not commence playback after PIP interruption and a possible refresh for the page may be required.

19. The Web Browser can play MP3 audio files only.

20. The function for importing or exporting bookmarks is compatible

with bookmark files in a particular file format only. (Compatible format: Netscape-bookmark-file-1)

21. When you import or export the bookmark, the folder tree is not included.

22. If you import the bookmark file to a Computer from a TV, the bookmark file will be saved in “Samsung Smart TV Bookmark” folder.

23. If the time is not set in the menu

(Menu → System → Time → Clock), the history information may not be saved.

24. Visited web site history is saved in chronological order and it will be removed from the list according to oldest page accessed.

25. Some video or audio content may not play during Flash playback depending on the video/audio codec supported.

26. Video Content that requires Flash Player 10.2 or higher is not supported.

Using the Smart Touch Control

Smart Touch Control at a Glance



⏻	Turns the TV on and off.
+ / −	Adjusts the Volume.
∧ / ∨	Changes channels.
RETURN	Returns to the previous menu.
VOICE	Lets you access the Voice Control function. When you press and hold the button, the TV displays the command list. You can speak using the microphone embedded in your remote. For more detailed information about the Voice Control function, see the "Recognition" in the e-manual or see user manual.
	✎ To exit the Voice Control function, release the button that is held down.
NUMBER	Displays the Number button screen. You can select a number using the Touch Pad.
	Brings up the Smart Hub applications. See e-Manual chapter Advanced Features → Smart Hub.

✎ If the user doesn’t press any button

during 30 seconds, the Smart Touch Control will be set to Sleep mode automatically. To wake up the Smart Touch Control, press the Touch Pad.

Initial Pairing

When you turn the TV on for the first time, you should connect your Smart Touch Control with your TV.

1. Turn the TV on by pressing the ⏻ button on your remote.

2. The TV will connect your Smart Touch Control automatically. Wait until the connection is completed.

If you want to perform the pairing process again, press the reset button in the centre of back cover. The Smart Touch Control will be initialized.



- Smart Touch Control PAIRING button.

Performing the Pairing Process Again

If you had experience malfunctioning of the touch pad frequently, you can perform the pairing process again. Follow these steps:

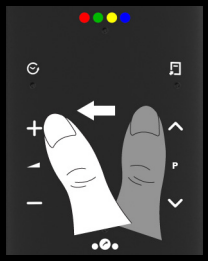
1. Press the NUMBER button for 3 seconds. The calibration of the touch pad starts.
2. When done, the LED of all in the top of the Smart Touch Control will blink twice at the same time

While calibrating, don't touch the

touch pad.

Using the Touch Pad

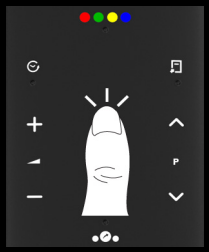
- Move the Highlight



Slide your finger from one side to the opposite direction.

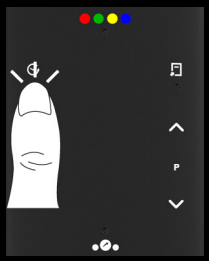
To move the Highlight continuously, slide your finger from one side to the opposite direction, and then hold your finger on the corresponding direction's edge.

- Select an item



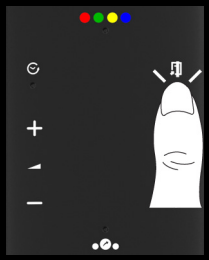
Press the Touch Pad.

- Open the History screen.



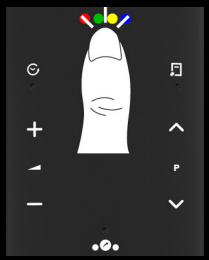
Press the button in the left centre of Touch Pad. Displays a list of recently used functions. You can select a function again using the Touch Pad easily and quickly.

- Open the Tools menu.



Press the button in the right centre of Touch Pad. Quickly select frequently used functions.

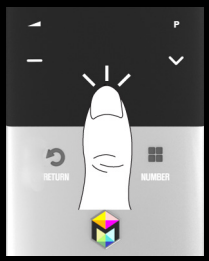
- Open the colours and playcontrol functions screen.



Press the button in the top centre of Touch Pad. The TV displays colour and playing control functions:

A B C D

- Open the shortcut functions screen.



Press the button in the bottom centre of Touch Pad. Quickly select frequently used functions:

TV BD/DVD STB 3D i

To Enter a channel number through Smart Touch Control

1. During watching broadcast, press the NUMBER button on your remote. The TV displays number button screen.
2. Enter a channel number you want

using your remote.

- When you enter a channel number, the TV displays an Auto Complete list to start with a corresponding channel number.
- If you change a channel by entering the channel number, the corresponding channel number is memorised in the list automatically. You can change a channel using a memorised channel list easily and

quickly.

Using the Smart Touch Control with IR Blaster



When you connect IR Blaster with your TV, you can control connected external devices with your TV using the Smart Touch Control.

IR Blaster Pairing

1. After inserting the batteries, turn on the IR Blaster. Follow diagram in battery compartment.

2. Move the IR Blaster to the direction of your TV's IR receiver, and then press the PAIRING button on the bottom of the IR Blaster.

3. The TV will connect your IR Blaster and Smart Touch Control automatically.

If the connection process failed, try again from Step 2.

Lets you control the Set-Top-Box (STB) or the BD player or both connected to the TV using your Smart Touch Control. After you connect the device to the TV, the Smart Touch Control can control the navigation, number, and other keys needed to operate and control the device.

To connect an external device to your Smart Touch Control, follow these

steps:

1. Press the ●◠● button in the bottom centre of the Touch Pad. The shortcut functions list appears.
2. Select Watch film(BD/DVD), and then press the Touch Pad. The message You haven't set up your remote to work with your Blu-ray player/DVD yet. Set up a new device to control? appears.
3. Select OK, and then press the Touch

Pad. The Universal Remote Setup. screen appears.

4. If you are using this function for the first time, the END USER LICENCE AGREEMENT screen appears. Scroll the agreement to the bottom, and then select I agree. You must agree to the terms prior to using Universal Remote.

5. The Screen "Which SAMSUNG REMOTE CONTROL do you

have?"appears.Select your remote control, and then press the Touch Pad.

6. Select Set up a device to control, and then press the Touch Pad. The SELECT A DEVICE screen appears.

7. Select an external device you want to connect and then press the Touch Pad. The Input Source screen appears.

8. Select the input source the external

device is connected to, and then press the Touch Pad. The Brand screen appears.

- The input source will be highlighted. If you don't see a highlighted source, make sure the device is connected to the TV, select Refresh on the right side, and then look for the input source again.

9. Press the Touch Pad. A keyboard and

an entry field appear. Enter the first few letters of the brand name of your device using the Touch Control, and then select Done at the bottom of the keyboard.

10. In the list that appears below the entry field, select the brand name of your device, and then press the Touch Pad. The TV searches for the brand, and then displays the Model screen.

11. Press the Touch Pad. A keyboard and an entry field appear. Enter the first few letters and numbers of the model code of your device using the Touch Control, and then select Done at the bottom of the keyboard.

12. In the list that appears below the entry field, select the model code of your device, and then press the Touch Pad. The TV searches for the model's code set, and then displays

Download screen.

If you can't find the model in the list the TV displays, select Recommended. If you select Recommended, go to Step 13. If you selected a model in the search result list, go to Step 16.

13. Press the Touch Pad to select Download. The Recommended code data will be downloaded to your Smart Touch Control.

14. The Test screen appears. Press the Touch Pad to select POWER.

15. If your external device turns on or off, select YES to download the Recommended code data to your Smart Control. After the download is complete, go to Step 18. If your external device does not turn on or off, select NO. If you selected NO, the TV changes the code data, and then the Test screen reappears. Go

to Step 16.

- Repeat Steps 13 through 15 until the device turns on or off and you select YES. The message Do you have IR Blaster? appears. Go to Step 18.
- If all the code data does not work, please check the brand name or search for the model name of your external device again.

16. Press the Touch Pad to select

Download. The universal remote setup data is downloaded to your Smart Control.

17. The message Do you have IR Blaster? appears. If you have an IR Blaster, select YES, and go to the next step. If you don't have an IR Blaster, select NO and go to Step 20.

18. Press the Touch Pad to select Download. The universal remote setup date is downloaded to your

IR Blaster. Your external device has been setup successfully.

Your IR Blaster must be powered on and connected to TV. For more detailed information about how to connect an IR Blaster to the TV, see "IR Blaster Pairing".

19. If you set up a BD player, setup is complete. Press the Touch Control pad. If you set up an STB, you can setup the CH.Index for the STB.

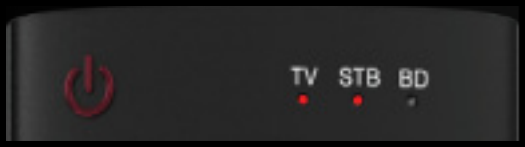
Select Setup CH.Index. The Zip Code screen appears.

20. Enter your zip code to find the TV service in your area. When done, the TV service provider screen appears.

21. Select your TV service provider. When done, select OK. The setup for the STB is complete.

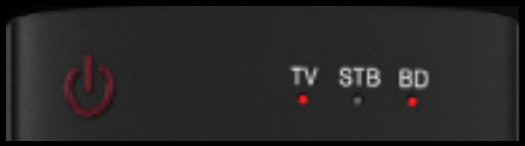
LED Indicator Status

- Watch TV (TV + STB)



You can control the TV and Set-top box using universal remote for viewing the Set-top box. (e.g. Volume button: Adjust the TV volume. / Channel button: Change the STB channels.)

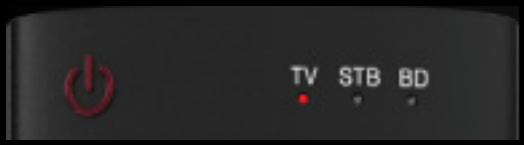
- Watch Movie (TV + BD Player)



You can control the TV and BD player using universal remote for viewing the BD player. (e.g. Volume button: Adjust

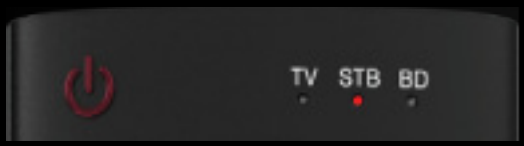
the TV volume. / TOOLS button: Open the BD players option menu.)

- TV



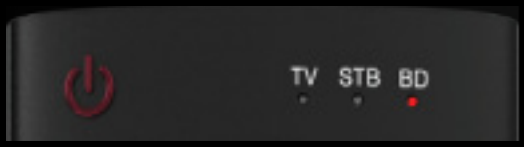
You can only control the TV using universal remote.

- STB



You can only control the Set-top box using universal remote.

- BD



You can only control the BD player using universal remote.

List of key applied

		WATCH TV	WATCH MOVIE	STB only	BD only
Hard Key	Power	TV	TV	TV	TV
	Vol +	TV	TV	STB	BD
	Vol -	TV	TV	STB	BD
	CH +	STB	BD	STB	BD(Chapter+)
	CH -	STB	BD	STB	BD(Chapter-)
	Hot Key Top	TV	TV	TV	TV
	Hot key bottom	TV	TV	TV	TV
	Return	highlight dependent	highlight dependent	highlight dependent	highlight dependent
	Tools	STB	BD	STB	BD
	History	TV	TV	TV	TV
	Smart Hub	TV	TV	TV	TV
	Voice Input	TV	TV	TV	TV
	Click(Enter)	STB	BD	STB	BD
	Touch Pad	highlight dependent	highlight dependent	highlight dependent	highlight dependent

TV OSD Key	1~0	STB	BD	STB	BD
	◀ ▶ ▲ ▼	highlight dependent	highlight dependent	highlight dependent	highlight dependent
	TTX/MIX	STB	N/A	STB	N/A
	PRE CH/ ENTER	STB	BD	STB	BD
	10	N/A	BD	N/A	BD
	Power	STB	BD	STB	BD
	info	STB	BD	STB	BD
	Menu	STB	TV	STB	BD
	Guide	N/A	N/A	STB	N/A
	Search	TV	TV	TV	TV
	Social TV	TV	TV	TV	TV
	3D	TV	TV	TV	TV
	Web Browser	TV	TV	TV	TV
	E-Manual	TV	TV	N/A	TV
	Repeat	N/A	N/A	N/A	BD
	⏸ ▶ ■ ⏮ ⏭ ◀◀ ▶▶ ●	STB	BD	STB	BD
	Colour	STB	BD	STB	BD
	Mute	TV	TV	STB	BD
	Device	TV	TV	TV	TV
	Source	TV	TV	TV	TV

Supported Subtitle and AllShare Play file formats

Subtitle

External

- MPEG-4 timed text (.ttxt)
- SAMI (.smi)
- SubRip (.srt)
- SubViewer (.sub)
- Micro DVD (.sub or .txt)

- SubStation Alpha (.ssa)
- Advanced SubStation Alpha (.ass)
- Powerdivx (.psb)

Internal

- **Xsub**

  Container: AVI
- **SubStation Alpha**

  Container: MKV
- **Advanced SubStation Alpha**

  Container: MKV

- **SubRip**

  Container: MKV

- **MPEG-4 timed text**

  Container: MP4

Supported image resolutions

File Extension	Type	Resolution
*.jpg	JPG	15360 x 8640
*.png	PNG	1920 x 1080
*.bmp	BMP	1920 x 1080
*.mpo	MPO	15360 x 8640

Supported music file formats

File Extension	Type	Codec	Comments
*.mp3	MP3	MPEG1 Audio Layer 3	
*.m4a *.mpa *.aac *.3ga	MPEG4	AAC	
*.flac	FLAC	FLAC	The Seek (jump) function is not supported. Supports up to 2 channel
*.ogg	OGG	Vorbis	Supports up to 2 channel
*.wma	WMA	WMA	WMA 10 Pro supports up to 5.1 channel. WMA lossless audio is not supported.

Video Codec

File Extension	Container	Video Codec	Resolution	Frame rate (fps)	Bit rate (Mbps)	Audio Codec
*.avi *.mkv *.asf *.wmv *.mp4 *.mov *.3gp *.vro *.mpg *.mpeg *.ts *.tp *.trp *.flv *.vob *.svi *.m2ts *.mts *.divx	AVI MKV ASF MP4 3GP VRO VOB PS TS	DIVX 3.11/4.x/5.x/6.x	1920 x 1080	6 - 30	30	AC3 LPCM ADMPCM(IMA, MS) AAC HE-AAC WMA DD+ MPEG(MP3) DTS Core G.711(A-Law, μ-Law)
		MPEG4 SP/ASP				
		H.264 BP/MP/HP				
		Motion JPEG				
		Window Media Video v9				
		MPEG2				
		MPEG1				
		VP6	640 x 480		4	
		SVAF	1920 x 1080		30	
		MVC		24 / 25 / 30	40	
*.webm	WebM	VP8		6 - 30	8	Vorbis
*.rmvb	RMVB	RV8/9/10(RV30/40)		30	20	RealAudio 6

Other Restriction

- Video content will not play, or not play correctly, if there is an error in the content or the container.
- Sound or video may not work if the contents have a standard bit rate/ frame rate above the compatible Frame/sec listed in the table above.
- If the Index Table is in error, the Seek (Jump) function is not supported.
- When you play video over a network connection, the video may not be

played smoothly.

- The menu may take longer to appear if the video's bit rate exceeds 10Mbps.
- Some USB/digital camera devices may not be compatible with the player.

Video decoder

- Supports up to H.264, Level 4.1
- H.264 FMO / ASO / RS, VC1 SP / MP /

AP L4 and AVCHD are not supported.

- For all Video codecs except MVC, VP8, VP6:
  - Below 1280 x 720: 60 frame max
  - Above 1280 x 720: 30 frame max
  - GMC 2 over is not supported.
- Supports only SVAF Top/Bottom and Side by Side.
- Supports only BD MVC Spec.

Audio decoder

- WMA 10 Pro supports up to 5.1 channel. WMA lossless audio is not supported.
- RealAudio 10 lossless is not supported.
- QCELP, AMR NB/WB are not supported.
- If Vorbis is only in Webm container, supports up to 2 channel.

Data Service

Allows the user to use information (text, still images, graphics, documents, software, etc.) transmitted via broadcast media.

Using Data Service

If the channel you are currently watching provides data service, you can enjoy a variety of data services by select A using your remote.

- Provided Data Service information may vary depending on broadcast.
- While using data service, changing the channel using the numeric functions may not be possible depending on the service.

1. Select A using your remote. The data service screen will be displayed.
2. Move to a desired option by your remote control on the data service screen and then select **OK**. The

selected service will be started.

If a Colour button of a certain function appears on the screen, you can use the offered function by select corresponding button.

3. If you select **EXIT**, data service will be closed.

Main Data Service buttons and their functions

- A (Data Service)

Displays the Data Service list and immediately starts Data Service.

- **BACK**

  Returns to the previous screen.

- **Colour Button**

  Perform functions corresponding to each Colour button image displayed on the screen during Data Service.

  Operations may differ depending on the service provider.

- **Symbol**

Text can be inputted using the numbers and letters printed on and above the numeric keys on the remote control. If you input the numeric keys on the remote control one by one into the blank where the cursor is located on the text input screen, the corresponding lettering, numbers or special characters will be displayed. e.g., if you press the number 3 key in rapid succession, then the assigned letters (D, E, and F) and

the number 3 will alternately appear in order of input.

- **TEXT**

  Switches to teletext mode or Returns to the previous screen.

  Operations may differ depending on the service provider.

- ▲ / ▼ / ◀ / ▶

  Moves the Data Service menu up, down, left and right.

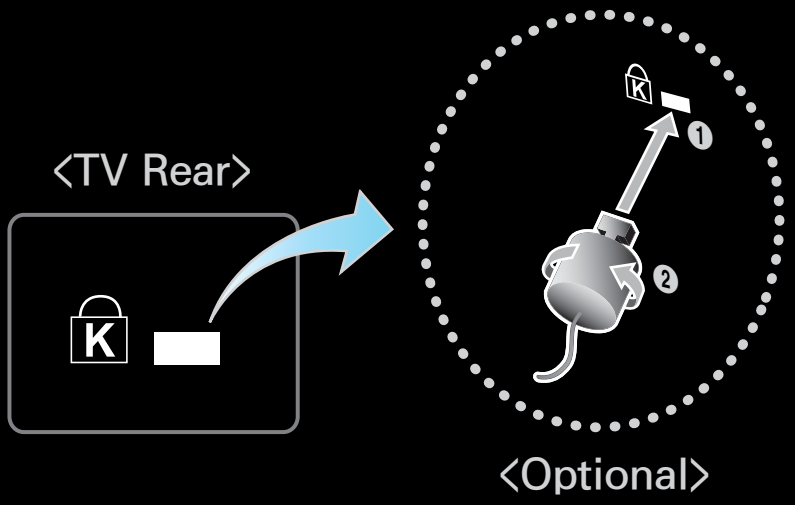
- **OK**

Runs a selected item.

- **EXIT**

  Stops a running Data Service.

Anti-theft Kensington Lock



A Kensington Lock is a device you can use to physically fix your TV in place when using it in a public place.

You wrap the Kensington Lock's cable

around a large, immobile object and then attach the lock to the Kensington slot on the back of the TV.

The appearance and locking method may differ from the illustration below depending on the manufacturer.

Refer to the manual provided with the Kensington Lock for additional information on proper use. The Kensington Lock is not supplied by Samsung.

Please find a “” icon on the rear of the TV. The Kensington slot is beside the “” icon.

To lock the product, follow these steps:

1. Wrap the Kensington Lock cable around a large, stationary object such as desk or chair.
2. Slide the end of the cable with the lock attached through the looped end of the Kensington Lock cable.

3. Insert the locking device into the Kensington slot on the product.
4. Lock the lock.

- These are general instructions. For exact instructions, see the User manual supplied with the locking device.
- The locking device has to be purchased separately.
- The location of the Kensington slot may be different depending on the

TV model.

Licence

AutoVolume feature is based on the patented TruVolume technology by SRS Labs Inc.



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